

THIS REPORT HAS BEEN DELIMITED  
AND CLEARED FOR PUBLIC RELEASE  
UNDER DOD DIRECTIVE 5200.20 AND  
NO RESTRICTIONS ARE IMPOSED UPON  
ITS USE AND DISCLOSURE.

**DISTRIBUTION STATEMENT A**

APPROVED FOR PUBLIC RELEASE,  
DISTRIBUTION UNLIMITED.

# Armed Services Technical Information Agency

Because of our limited supply, you are requested to return this copy WHEN IT HAS SERVED YOUR PURPOSE so that it may be made available to other requesters. Your cooperation will be appreciated.

**AD**

**37230**

NOTICE: WHEN GOVERNMENT OR OTHER DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE U. S. GOVERNMENT THEREBY INCURS NO RESPONSIBILITY, NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

Reproduced by  
**DOCUMENT SERVICE CENTER**  
KNOTT BUILDING, DAYTON, 2, OHIO

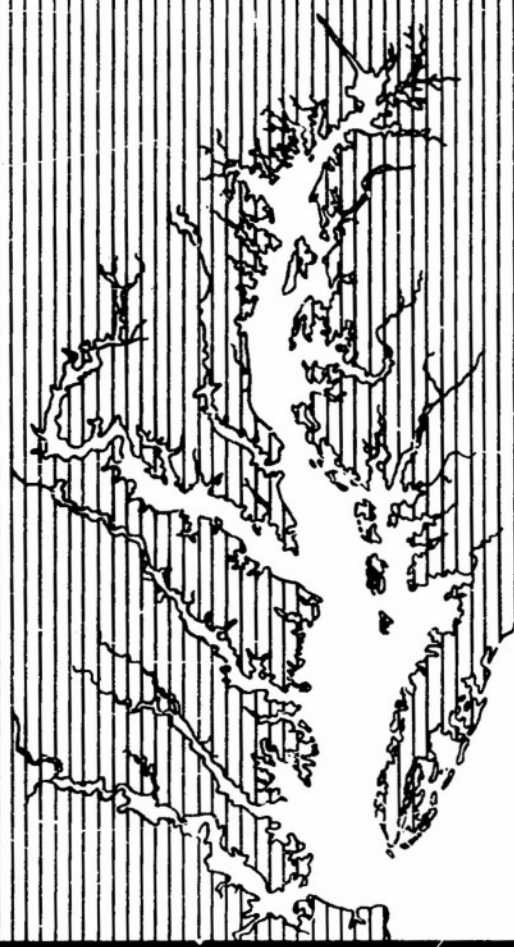
**UNCLASSIFIED**

AD No. 37230

AS HA FILE COPY



# THE CHESAPEAKE BAY INSTITUTE of The Johns Hopkins University



DATA REPORT 19  
PATUXENT RIVER SUMMER CRUISE  
23 June - 28 June 1952

Reference 54-6  
June 1954

CHESAPEAKE BAY INSTITUTE  
THE JOHNS HOPKINS UNIVERSITY

DATA REPORT 19

PATUXENT RIVER-SUMMER CRUISE  
23 June - 28 June 1952

This report contains results of work carried out for: the Office of Naval Research of the Navy Department under research project NR 083-016, Contract Nonr 248(20), and research project NR 083-070; Contract Nonr 248(30); the State of Maryland (Department of Research and Education); and the Commonwealth of Virginia (Virginia Fisheries Laboratory).

June 1954  
Reference 54-6

D. W. Pritchard  
Director



The data presented in this report were collected in the Patuxent River during the period 23 June to 28 June 1952.

The purpose of this cruise was to study the physical and chemical structure of the area in the summer season.

The presentation of data in this report does not constitute publication and the information may be subject to modification at a later date.

#### Location of Stations

An arbitrary line designating the mouth of the river was chosen from Little Cove Point to Cedar Point. The stations were chosen upstream from this line in the deepest part of the channel. The station designators consist of the letters PX followed by the numerals representing the number of miles (nautical) to the nearest mile upstream from the mouth of the river. Thus PX-21 is the station 21 miles upstream from the line designating the mouth of the river.

#### Observations

Current speed and direction were measured with the confined submerged drags described in Chesapeake Bay Institute Technical Report No. 1.

Temperature and salinity were determined by means of the Conductivity-Temperature-Indicator (CTI). (See Data Report 13, reference 53-4.)

Oxygen was determined by the modified Winkler titration method.

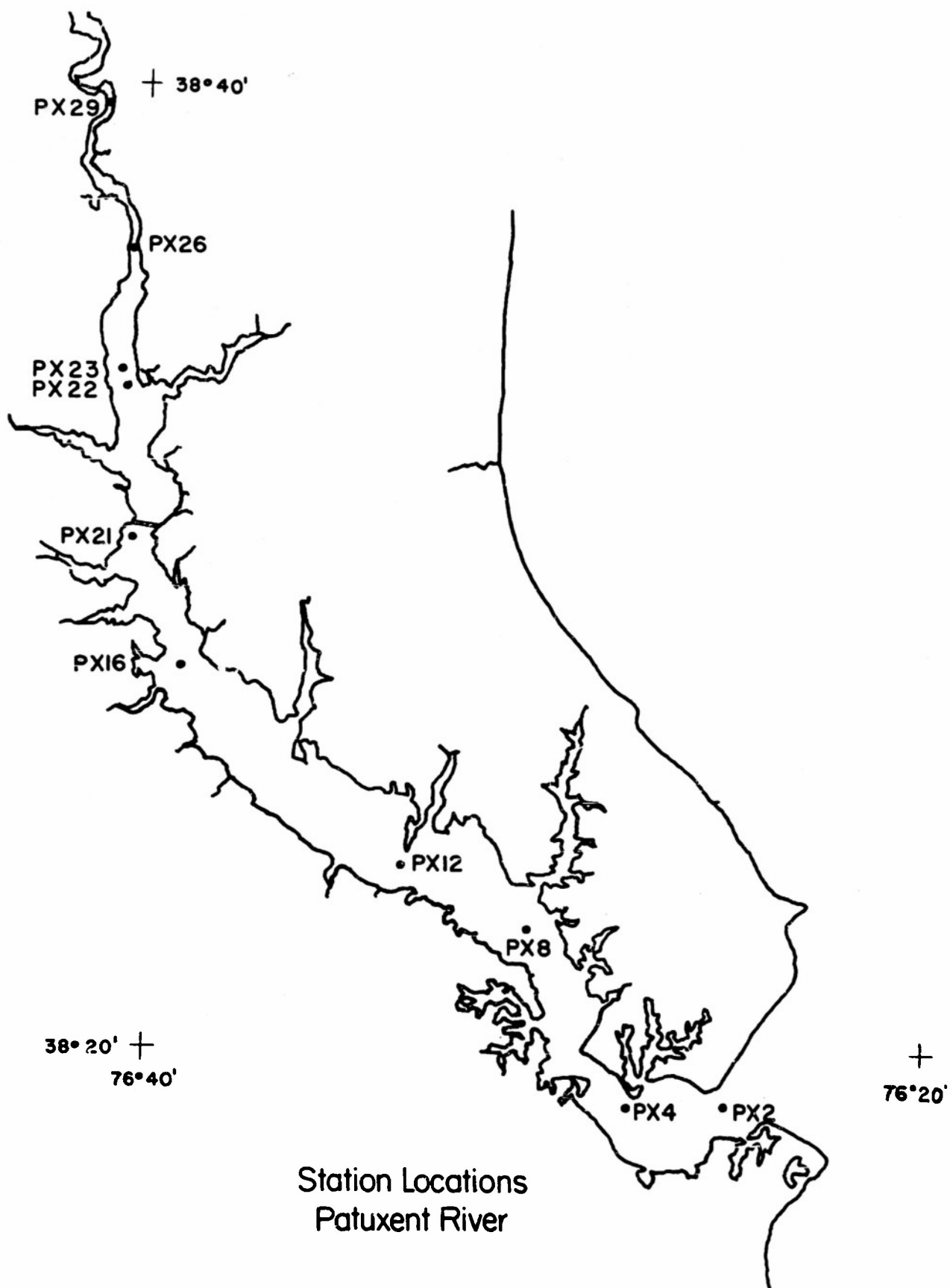
pH was determined with a Beckman pH meter.

Turbidity, inorganic phosphate, and chlorophyll were determined by the methods outlined in Data Report 12, reference 52-21.

Alkalinity was determined by the method found in Industrial and Engineering Chemistry, Analytical Edition, Volume 16, No. 12, 1946.

Weather is reported in the code outlined in Data Report 18, reference 54-2.

Wind force is given in Beaufort scale units.



Section A  
Salinity, Temperature, Current, and Meteorological Data

PX-2 27 June 52		1810 EST Depth 62'	Weather 14 Wind W-3 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.17	8.94	243	0.19
5	28.18	8.94	273	0.17
10	27.38	8.93	221	0.14
15	25.60	9.14	066	0.15
20	25.40	9.35	151	0.21
25	24.78	9.50	143	0.20
30	24.72	9.55	053	0.12
35	24.18	9.96	051	0.11
40	23.93	10.32	053	0.11
45	23.27	11.31	0	0.00
50	22.59	12.37	0	0.00
55	21.47	13.95	0	0.00
60	21.37	14.38	0	0.00

PX-2 27 June 52		2000 EST Depth 58'	Weather 01 Wind W-1 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.00	8.88	0	0.00
5	27.70	9.00	0	0.00
10	27.45	9.07	103	0.46
15	26.85	9.26	104	0.50
20	25.51	9.42	065	0.21
25	25.42	9.47	078	0.37
30	24.76	9.68	042	0.32
35	23.81	10.53	017	0.24
40	23.63	10.80	010	0.12
45	23.10	11.48	0	0.00
50	21.55	14.08	0	0.00
55	21.49	14.27	0	0.00
59	21.43	14.28	--	--

PX-2 27 June 52		1900 EST Depth 60'	Weather 01 Wind W-1 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.77	8.92	0	0.00
5	27.32	8.97	090	0.23
10	26.74	9.26	091	0.24
15	26.45	9.30	091	0.28
20	25.55	9.43	071	0.20
25	25.31	9.47	071	0.17
30	25.17	9.47	0	0.00
35	24.26	9.92	0	0.00
40	23.68	10.67	0	0.00
45	23.47	11.05	0	0.00
50	22.23	12.60	0	0.00
55	21.66	13.92	0	0.00
59 <sup>1</sup> / <sub>2</sub>	21.45	14.27	--	--

PX-2 27 June 52		2100 EST Depth 58'	Weather 01 Wind W-1 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.38	9.06	071	0.38
5	27.35	9.08	056	0.31
10	27.34	9.08	018	0.26
15	25.95	9.37	018	0.50
20	25.70	9.42	019	0.58
25	25.35	9.48	030	0.55
30	25.15	9.58	060	0.55
35	24.27	10.00	070	0.57
40	23.64	10.73	059	0.57
45	22.33	12.55	0	0.00
50	21.50	14.15	0	0.00
55	21.37	14.35	0	0.00
59	21.33	14.45	--	--

PX-2 27 June 52		2200 EST Depth 58'	Weather 03 Wind W-1 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.77	9.28	068	0.61
5	27.73	9.33	068	0.57
10	27.04	9.33	068	0.55
15	26.91	9.33	070	0.66
20	26.38	9.33	065	0.66
25	25.35	9.37	071	0.58
30	24.85	9.73	072	0.48
35	23.81	10.52	073	0.31
40	22.80	12.20	256	0.31
45	22.06	13.33	256	0.36
50	21.50	14.23	256	0.26
55	21.40	14.38	0	0.00
59	21.35	14.42	--	--

PX-2 28 June 52		2400 EST Depth 58'	Weather 01 Wind 0 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.27	9.25	088	0.17
5	27.25	9.27	062	0.16
10	26.68	9.34	021	0.30
15	26.12	9.42	059	0.24
20	25.94	9.44	068	0.26
25	24.57	9.83	073	0.27
30	24.29	10.22	078	0.24
35	23.54	10.90	259	0.21
40	23.08	11.96	259	0.26
45	22.45	13.04	253	0.31
50	21.81	14.12	245	0.32
55	21.74	14.27	236	0.11
60	21.68	14.38	--	--

PX-2 28 June 52		2300 EST Depth 58'	Weather 03 Wind W-1 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.48	8.97	073	0.52
5	27.87	9.10	055	0.43
10	27.63	9.12	056	0.61
15	27.42	9.15	076	0.58
20	26.87	9.21	076	0.57
25	26.15	9.41	066	0.52
30	25.15	9.87	076	0.38
35	24.27	10.81	0	0.00
40	23.33	12.25	259	0.48
45	22.93	13.05	247	0.50
50	22.50	13.77	251	0.43
55	22.36	13.93	255	0.29
59	22.20	14.10	--	--

PX-2 28 June 52		0100 EST Depth 58'	Weather 01 Wind 0 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.81	9.03	0	0.00
5	27.73	9.13	0	0.00
10	27.53	9.19	0	0.00
15	26.60	9.29	0	0.00
20	25.55	9.56	0	0.00
25	25.15	9.74	0	0.00
30	25.03	9.83	0	0.00
35	24.83	10.12	279	0.17
40	23.82	11.40	249	0.29
45	22.91	12.96	241	0.55
50	22.31	13.92	242	0.61
55	22.07	14.36	243	0.58
59	22.06	14.36	--	--

PX-2 28 June 52		0201 EST Depth 58'		Weather 01 Wind 0 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	27.50	8.98	200	0.85	
5	27.45	9.00	201	0.44	
10	26.56	9.20	201	0.20	
15	26.07	9.41	205	0.44	
20	28.85	--	204	0.44	
25	24.96	9.74	204	0.39	
30	24.55	10.01	204	0.59	
35	24.18	10.43	204	0.56	
40	23.69	10.82	204	0.62	
45	22.86	12.27	200	0.52	
50	21.99	13.74	200	0.44	
55	21.60	14.55	200	0.44	

PX-2 28 June 52		0400 EST Depth 58'		Weather 01 Wind ESE-1 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	27.96	8.98	253	0.47	
5	27.94	9.02	253	0.52	
10	27.80	9.10	253	0.62	
15	27.74	9.11	243	0.62	
20	27.11	9.12	233	0.62	
25	25.80	9.44	233	0.62	
30	25.15	9.82	243	0.62	
35	24.52	10.29	243	0.47	
40	23.77	11.43	243	0.44	
45	23.03	12.51	240	0.39	
50	22.69	13.36	240	0.28	
52	22.22	13.93	240	0.28	

PX-2 28 June 52		0300 EST Depth 58'		Weather 01 Wind 0 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	28.25	8.96	211	0.80	
5	28.25	8.96	226	0.69	
10	28.07	9.06	226	0.56	
15	27.53	9.21	226	0.44	
20	27.12	9.32	232	0.47	
25	26.81	9.35	233	0.59	
30	25.34	9.96	236	0.47	
35	25.10	10.13	236	0.47	
40	24.90	10.28	216	0.44	
45	24.10	11.43	217	0.44	
50	22.85	13.70	217	0.34	
55	22.55	14.15	217	0.28	

PX-2 28 June 52		0501 EST Depth 58'	Weather 01 Wind S-3 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.00	8.90	233	0.59
5	28.05	8.91	233	0.62
10	28.02	8.91	233	0.62
15	27.99	8.92	233	0.59
20	27.25	8.97	236	0.59
25	25.51	9.61	241	0.56
30	25.13	9.90	256	0.47
35	24.75	10.20	239	0.28
40	24.56	10.52	230	0.22
45	23.96	11.43	190	0.20
50	22.61	13.59	237	0.14
55	22.40	14.10	235	0.12

PX-2 28 June 52		0600 EST Depth 58'	Weather 03 Wind SE-1 Air 26.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.91	8.89	259	0.16
5	27.97	8.93	239	0.24
10	27.97	8.93	229	0.30
15	27.92	8.94	179	0.29
20	27.26	9.02	181	0.29
25	25.42	9.64	224	0.12
30	25.27	9.78	0	0.00
35	25.10	9.87	145	0.11
40	24.68	10.32	166	0.15
45	24.00	11.22	166	0.14
50	23.05	13.08	245	0.09
55	22.57	13.76	0	0.00
57	22.55	13.82	--	--

PX-2 28 June 52		0800 EST Depth 58'	Weather 03 Wind ENE-1 Air 28.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.30	9.25	092	0.61
5	27.00	9.31	106	0.63
10	26.83	9.34	102	0.61
15	26.74	9.37	092	0.57
20	26.47	9.45	045	0.38
25	25.50	9.82	045	0.45
30	25.38	9.92	070	0.46
35	24.93	10.15	065	0.48
40	23.91	11.18	045	0.52
45	23.54	11.93	0	0.00
50	22.42	13.90	0	0.00
55	22.20	14.27	0	0.00

PX-2 28 June 52		0700 EST Depth 58'	Weather 03 Wind ENE-1 Air 26.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.37	9.01	0	0.00
5	27.11	9.08	0	0.00
10	26.70	9.17	0	0.00
15	26.45	9.24	108	0.29
20	25.42	9.60	105	0.36
25	25.22	9.67	106	0.29
30	25.07	9.74	091	0.29
35	24.50	10.04	107	0.22
40	24.02	10.69	043	0.38
45	23.56	11.59	019	0.38
50	22.67	13.09	247	0.22
55	22.26	13.68	198	0.22

PX-2 28 June 52		0900 EST Depth 58'	Weather 03 Wind 0 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.70	9.22	095	0.69
5	26.36	9.32	089	0.53
10	26.04	9.42	065	0.55
15	26.00	9.45	061	0.45
20	25.91	9.55	043	0.46
25	25.76	9.68	058	0.52
30	24.38	10.11	079	0.53
35	23.98	10.50	082	0.55
40	23.79	10.68	077	0.53
45	22.51	13.01	027	0.22
50	21.93	14.10	036	0.29
55	21.80	14.26	024	0.22

PX-2 28 June 52		1000 EST Depth 58'	Weather 03 Wind E-1 Air 31.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.20	9.09	066	0.36
5	26.97	9.26	071	0.55
10	26.76	9.28	066	0.53
15	26.57	9.32	081	0.53
20	26.27	9.34	080	0.53
25	25.24	9.55	079	0.58
30	24.51	9.92	064	0.60
35	24.07	10.29	060	0.60
40	22.75	12.28	0	0.00
45	21.96	13.89	230	0.46
50	21.77	14.12	230	0.57
55	21.63	14.32	229	0.46

PX-2 28 June 52		1200 EST Depth 58'	Weather 03 Wind E-1 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.79	9.23	103	0.09
5	27.32	9.24	101	0.11
10	26.57	9.34	092	0.26
15	26.24	9.40	093	0.43
20	25.74	9.53	093	0.43
25	25.12	9.68	043	0.41
30	24.35	10.07	103	0.31
35	26.69	11.04	0	0.00
40	22.71	12.60	202	0.38
45	21.97	13.74	201	0.45
50	21.82	14.22	193	0.18
55	21.52	14.71	0	0.00

PX-2 28 June 52		1100 EST Depth 58'	Weather 03 Wind E-1 Air 33.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.90	9.05	084	0.36
5	27.27	9.16	077	0.55
10	27.06	9.27	071	0.55
15	26.66	9.29	076	0.60
20	26.36	9.32	071	0.53
25	25.61	9.55	066	0.58
30	24.67	9.81	066	0.58
35	23.32	11.37	0	0.00
40	22.40	13.02	206	0.38
45	22.18	13.54	207	0.45
50	21.70	14.33	203	0.53
55	21.57	14.51	208	0.55

PX-2 28 June 52		1300 EST Depth 58'	Weather 03 Wind E-1 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.74	9.08	203	0.39
5	27.68	9.09	203	0.44
10	27.59	9.12	204	0.15
15	27.37	9.19	109	0.14
20	26.79	9.29	099	0.19
25	24.87	9.73	109	0.14
30	24.32	10.13	304	0.14
35	24.14	10.49	209	0.17
40	23.16	11.99	204	0.19
45	22.32	13.33	199	0.14
50	21.61	14.55	0	0.00
55	--	--	0	0.00



FX-2      1400 EST      Weather 03 28 June 52      Depth 58'      Wind E-1 Air 30.0°C				
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.68	9.02	223	0.82
5	27.66	9.02	226	0.82
10	27.27	9.07	223	0.50
15	26.99	9.18	208	0.11
20	26.47	9.33	0	0.00
25	24.83	9.78	223	0.12
30	24.42	9.95	230	0.17
35	23.76	10.78	229	0.20
40	23.42	11.57	233	0.27
45	22.46	13.05	235	0.32
50	21.68	14.24	233	0.19
55	--	--	0	0.00

FX-2      1600 EST      Weather 03 28 June 52      Depth 58'      Wind NE-1 Air 32.2°C				
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	29.00	9.00	226	0.87
5	28.86	9.07	225	0.71
10	28.78	9.10	235	0.59
15	28.60	9.12	242	0.66
20	28.34	9.12	238	0.62
25	26.47	9.42	233	0.39
30	25.44	9.64	232	0.56
35	24.66	10.33	232	0.56
40	24.18	11.10	231	0.52
45	23.71	11.75	229	0.44
50	22.99	12.99	227	0.39
55	22.28	14.16	0	0.00

FX-2      1500 EST      Weather 05 28 June 52      Depth 58'      Wind ENE-2 Air 31.1°C				
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.05	8.96	225	1.13
5	27.61	8.92	225	0.92
10	28.30	8.92	225	0.77
15	26.60	9.25	237	0.65
20	25.97	9.46	238	0.38
25	24.81	9.80	228	0.26
30	24.46	10.00	228	0.22
35	23.88	10.67	238	0.36
40	23.16	11.82	248	0.43
45	23.63	12.57	226	0.43
50	22.71	14.20	235	0.34
60	--	--	225	0.31



PX-4 26 June 52		1711 EST Depth 60'	Weather 01 Wind NW-1 Air 38.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.10	9.11	293	0.11
5	27.15	9.10	230	0.21
10	25.51	9.37	263	0.21
15	25.25	9.50	286	0.21
20	24.85	9.60	287	0.19
25	24.75	9.65	127	0.11
30	24.16	9.83	125	0.16
35	24.10	9.85	124	0.21
40	24.00	9.89	132	0.21
45	23.97	9.92	121	0.21
50	23.85	10.02	125	0.16
55	23.56	10.42	120	0.09
60	22.28	12.33	--	--

PX-4 26 June 52		1900 EST Depth 60'	Weather 01 Wind SW-1 Air 32.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.27	9.42	090	0.52
5	26.32	9.45	128	0.56
10	26.07	9.52	137	0.69
15	26.00	9.53	148	0.74
20	25.22	9.59	144	0.66
25	25.02	9.64	128	0.44
30	24.50	9.76	128	0.34
35	23.98	9.94	130	0.34
40	23.68	10.09	138	0.52
45	23.56	10.20	140	0.47
50	23.45	10.32	140	0.47
55	23.28	10.60	164	0.28
58	22.49	11.86	--	--

PX-4 26 June 52		1800 EST Depth 60'	Weather 01 Wind W-1 Air 35.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.01	9.14	0	0.00
5	27.06	9.23	196	0.30
10	25.92	9.27	118	0.12
15	24.78	9.52	120	0.20
20	24.46	9.71	160	0.24
25	24.41	9.73	170	0.28
30	24.41	9.73	155	0.28
35	24.16	9.83	125	0.24
40	23.87	9.97	110	0.19
45	23.82	10.02	099	0.12
50	23.77	10.05	0	0.00
55	23.22	10.92	221	0.11
60	22.35	12.31	--	--

PX-4 26 June 52		2000 EST Depth 60'	Weather 01 Wind SW-1 Air 30.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.61	9.33	104	0.52
5	26.60	9.33	119	0.44
10	26.55	9.34	125	0.69
15	25.52	9.57	137	0.69
20	24.35	9.75	133	0.66
25	24.07	9.83	134	0.59
30	24.07	9.84	132	0.56
35	24.00	9.85	123	0.52
40	23.69	10.01	122	0.47
45	23.70	10.05	114	0.44
50	23.68	10.11	117	0.44
55	23.71	11.05	113	0.34

PX-4 26 June 52		2100 EST Depth 60'	Weather 01 Wind W-1 Air 30.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.54	9.33	096	0.52
5	26.55	9.42	151	0.62
10	25.56	9.48	139	0.52
15	25.33	9.56	149	0.56
20	24.22	9.75	138	0.44
25	24.09	9.82	128	0.44
30	24.00	9.84	130	0.39
35	23.90	9.87	135	0.39
40	23.82	9.92	135	0.39
45	23.77	9.95	129	0.39
50	23.40	10.28	099	0.28
55	22.61	11.62	0	0.00

PX-4 26 June 52		2300 EST Depth 60'	Weather 01 Wind 0 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.67	9.12	--	--
5	26.80	9.10	--	--
10	26.55	9.16	206	0.87
15	25.87	9.37	206	0.47
20	25.40	9.48	201	0.44
25	24.36	9.77	194	0.47
30	24.02	9.90	180	0.44
35	23.96	9.93	181	0.18
40	23.91	9.96	0	0.00
45	23.87	9.97	0	0.00
50	23.63	10.12	0	0.00
55	23.25	10.62	306	0.22

PX-4 26 June 52		2200 EST Depth 60'	Weather 01 Wind W-1 Air 30.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.68	9.08	--	--
5	26.67	9.08	--	--
10	24.45	9.21	166	0.97
15	24.60	9.67	167	0.77
20	24.52	9.72	162	0.69
25	24.37	9.77	162	0.46
30	24.17	9.83	162	0.31
35	23.91	9.92	163	0.26
40	23.76	9.98	122	0.22
45	23.76	9.98	122	0.22
50	23.58	10.13	122	0.22
55	23.07	10.83	0	0.00

PX-4 27 June 52		0000 EST Depth 60'	Weather 01 Wind 0 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.69	9.27	--	--
5	26.68	9.27	--	--
10	26.37	9.36	270	0.63
15	25.52	9.42	270	0.61
20	24.91	9.49	270	0.46
25	24.37	9.77	281	0.37
30	24.25	9.80	283	0.30
35	24.06	9.87	299	0.21
40	23.88	9.96	299	0.11
45	23.70	10.00	294	0.26
50	23.63	10.11	294	0.27
55	23.41	10.42	294	0.24
58	23.26	10.60	--	--

PX-4 27 June 52		0100 EST Depth 60'	Weather 01 Wind 0 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.51	9.37	354	0.71
5	26.22	9.45	268	0.77
10	26.01	9.50	268	0.80
15	25.80	9.52	268	0.62
20	25.41	9.55	268	0.62
25	24.82	9.67	268	0.59
30	24.43	9.74	268	0.52
35	24.12	9.83	268	0.39
40	23.94	9.96	314	0.52
45	23.81	9.98	304	0.59
50	23.80	9.98	304	0.66
55	23.68	10.08	304	0.69
58	23.59	10.16	--	--

PX-4 27 June 52		0300 EST Depth 60'		Weather 01 Wind 0 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	26.45	9.27	--	--	
5	26.45	9.27	--	--	
10	26.35	9.28	284	0.28	
15	25.97	9.34	284	0.34	
20	24.87	9.64	284	0.52	
25	24.40	9.71	314	0.52	
30	24.37	9.72	314	0.52	
35	24.17	9.85	314	0.52	
40	24.12	9.86	314	0.56	
45	24.09	9.87	314	0.62	
50	24.01	9.90	314	0.62	
55	23.90	9.96	314	0.52	
60	23.16	10.77	--	--	

PX-4 27 June 52		0200 EST Depth 60'		Weather 01 Wind 0 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	26.27	9.23	--	--	
5	26.28	9.23	--	--	
10	26.26	9.24	281	0.69	
15	26.21	9.35	281	0.77	
20	25.81	9.52	280	0.56	
25	25.17	9.57	280	0.52	
30	24.38	9.77	280	0.52	
35	24.18	9.85	281	0.56	
40	24.02	9.90	281	0.66	
45	24.02	9.90	281	0.52	
50	23.97	9.95	281	0.71	
55	23.76	10.07	280	0.71	
60	22.87	11.17	--	--	

PX-4 27 June 52		0400 EST Depth 60'		Weather 01 Wind 0 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	25.95	9.35	--	--	
5	25.97	9.34	--	--	
10	25.95	9.33	283	0.34	
15	25.70	9.38	283	0.28	
20	25.46	9.52	283	0.34	
25	24.81	9.67	283	0.44	
30	24.57	9.74	328	0.34	
35	24.55	9.75	328	0.39	
40	24.49	9.76	328	0.47	
45	24.25	9.83	283	0.47	
50	23.22	10.78	283	0.34	
55	23.03	11.12	283	0.28	
60	22.90	11.45	--	--	

PX-4 27 June 52		0500 EST Depth 60'	Weather 01 Wind 0 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.60	9.33	--	--
5	26.60	9.33	--	--
10	26.26	9.35	284	0.18
15	26.01	9.40	284	0.22
20	25.38	9.57	284	0.29
25	24.95	9.63	284	0.26
30	24.95	9.65	284	0.31
35	24.65	9.74	284	0.31
40	24.38	9.84	284	0.29
45	23.82	10.35	284	0.26
50	23.66	10.49	0	0.00
55	23.49	10.73	0	0.00
59	23.17	11.31	--	--

PX-4 27 June 52		0705 EST Depth 59'	Weather 01 Wind NWN-1 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.10	9.35	149	0.61
5	25.82	9.44	150	0.52
10	25.75	9.46	140	0.52
15	25.66	9.49	128	0.28
20	25.47	9.57	118	0.24
25	24.95	9.67	095	0.26
30	24.76	9.72	115	0.25
35	24.62	9.76	125	0.24
40	24.34	9.87	127	0.21
45	24.25	9.95	128	0.12
50	24.06	10.07	128	0.00
55	23.26	10.86	0	0.00

PX-4 27 June 52		0600 EST Depth 60'	Weather 01 Wind 0 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.60	9.32	189	0.14
5	25.98	9.58	198	0.20
10	25.21	9.60	257	0.15
15	25.02	9.65	0	0.00
20	24.99	9.66	0	0.00
25	24.78	9.72	0	0.00
30	24.72	9.75	0	0.00
35	24.67	9.76	182	0.11
40	24.22	9.97	178	0.11
45	24.20	10.01	0	0.00
50	24.18	10.03	0	0.00
55	23.21	11.03	0	0.00

PX-4 27 June 52		0800 EST Depth 58'	Weather 01 Wind NW-1 Air 30.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.65	9.33	122	0.57
5	26.40	9.33	122	0.53
10	25.87	9.46	123	0.45
15	25.62	9.54	120	0.57
20	25.05	9.69	142	0.67
25	24.95	9.72	131	0.60
30	24.54	9.83	132	0.55
35	24.35	9.91	132	0.46
40	24.05	10.08	113	0.38
45	23.94	10.15	119	0.29
50	23.53	10.50	0	0.00
55	23.12	11.13	0	0.00

PX-4      0900 EST      Weather 01 27 June 52      Depth 58'      Wind N-1 Air 32.2°C				
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.87	9.33	148	0.72
5	26.02	9.38	118	0.69
10	25.68	9.46	090	0.57
15	25.43	9.54	118	0.45
20	25.12	9.61	145	0.41
25	24.82	9.70	153	0.38
30	24.52	9.80	102	0.43
35	24.29	9.88	093	0.43
40	24.10	9.99	067	0.43
45	23.97	10.11	052	0.36
50	23.77	10.27	048	0.29
55	23.22	10.95	0	0.00

PX-4      1043 EST      Weather 01 27 June 52      Depth 58'      Wind NE-1 Air 35.6°C				
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.80	9.25	158	1.13
5	26.22	9.29	158	0.87
10	25.15	9.62	159	0.77
15	24.67	9.79	159	0.70
20	24.44	9.87	160	0.70
25	24.24	9.97	160	0.58
30	24.20	10.03	160	0.52
35	24.20	10.02	160	0.47
40	24.19	10.02	159	0.44
45	24.12	10.02	159	0.34
50	24.07	10.06	158	0.34
55	23.33	10.85	158	0.34

PX-4      1000 EST      Weather 01 27 June 52      Depth 58'      Wind NNE-1 Air 33.3°C				
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.60	9.30	162	1.13
5	26.42	9.32	162	1.01
10	25.46	9.63	151	0.50
15	25.00	9.73	121	0.46
20	24.91	9.76	101	0.52
25	24.91	9.76	101	0.46
30	24.85	9.77	101	0.45
35	24.37	9.93	080	0.38
40	24.25	9.99	074	0.38
45	23.90	10.17	069	0.29
50	23.55	10.56	0	0.00
55	23.06	11.41	0	0.00

PX-4      1200 EST      Weather 05 27 June 52      Depth 58'      Wind NE-1 Air 31.7°C				
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.09	9.11	156	1.04
5	26.86	9.13	166	0.97
10	26.45	9.23	171	0.71
15	25.27	9.56	172	0.62
20	24.62	9.82	166	0.66
25	24.25	9.97	161	0.62
30	24.16	10.05	161	0.52
35	24.11	10.09	167	0.44
40	24.06	10.12	157	0.28
45	24.05	10.12	157	0.28
50	23.51	10.05	0	0.00
55	23.21	11.10	0	0.00

PX-4 27 June 52		1300 EST Depth 58'	Weather 05 Wind NE-1 Air 36.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.30	9.25	0	0.00
5	27.25	9.27	0	0.00
10	27.02	9.41	0	0.00
15	25.80	9.48	257	0.28
20	25.23	9.60	0	0.00
25	24.61	9.82	0	0.00
30	24.12	10.06	274	0.44
35	23.96	10.19	273	0.44
40	23.82	10.27	273	0.39
45	23.73	10.40	266	0.34
50	23.60	10.57	286	0.34
55	23.28	11.11	304	0.47

PX-4 27 June 52		1500 EST Depth 58'	Weather 05 Wind NE-1 Air 37.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.00	9.40	--	--
5	28.03	9.40	--	--
10	28.05	9.40	290	0.85
15	27.40	9.42	290	0.82
17½	25.97	9.53	--	--
20	24.93	9.72	290	0.85
25	24.72	9.77	295	0.82
30	24.60	9.80	295	0.80
35	24.60	9.80	295	0.82
40	24.47	9.83	294	0.82
45	24.34	9.92	300	0.85
49	23.08	11.61	--	--
50	22.21	12.97	300	0.77
55	22.05	13.19	295	0.66

PX-4 27 June 52		1400 EST Depth 58'	Weather 05 Wind NE-1 Air 40.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.63	9.27	0	0.00
5	27.52	9.30	0	0.00
10	27.45	9.30	248	0.62
15	26.77	9.41	258	0.82
20	26.20	9.49	263	0.77
25	24.81	9.70	263	0.62
30	24.53	9.85	268	0.66
35	24.16	10.00	273	0.69
40	23.87	10.19	273	0.69
45	23.71	10.27	278	0.69
50	23.68	10.44	288	0.71
52½	23.60	10.70	--	--
55	21.88	13.60	278	0.52

PX-4 27 June 52		1600 EST Depth 58'	Weather 05 Wind NE-1 Air 33.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.30	9.43	263	0.74
5	28.05	9.42	261	0.71
10	27.86	9.40	275	0.69
15	26.31	9.40	261	0.66
20	25.43	9.57	268	0.62
25	25.20	9.63	279	0.62
30	25.00	9.68	288	0.59
35	24.92	9.72	297	0.56
40	24.85	9.74	305	0.47
45	24.60	9.81	309	0.47
49	23.54	10.60	--	--
50	22.17	12.88	308	0.39
55	22.11	13.11	267	0.28



PX-8 26 June 52		1800 EST Depth 53'	Weather 00 Wind 0 Air 34.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.16	8.68	130	0.55
5	27.46	8.84	131	0.41
10	25.21	9.45	043	0.14
15	24.05	9.81	043	0.14
20	23.71	9.90	043	0.14
25	23.71	9.91	044	0.11
30	24.00	9.85	0	0.00
35	23.67	9.93	0	0.00
40	23.59	9.95	0	0.00
45	23.53	9.98	0	0.00
50	23.50	10.00	139	0.09
52	23.47	10.02	--	--

PX-8 26 June 52		2000 EST Depth 52'	Weather 00 Wind NW-1 Air 32.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.22	8.45	135	0.81
5	27.92	8.59	133	0.81
10	27.73	8.74	136	0.50
15	23.71	9.87	126	0.36
20	23.58	9.93	137	0.34
25	23.50	9.98	142	0.29
30	23.50	9.98	142	0.31
35	23.50	9.98	137	0.29
40	23.49	9.99	137	0.29
45	23.49	9.99	137	0.29
50	23.46	10.00	135	0.29
52	23.46	10.00	--	--

PX-8 26 June 52		1900 EST Depth 53'	Weather 00 Wind 0 Air 33.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.37	8.48	146	0.60
5	28.22	8.67	146	0.52
10	24.98	9.43	136	0.19
15	23.81	9.87	136	0.14
20	23.70	9.90	136	0.11
25	23.60	9.93	141	0.20
30	23.54	9.96	146	0.16
35	23.53	9.97	146	0.15
40	23.50	9.99	146	0.16
45	23.48	10.00	136	0.14
50	23.47	10.00	136	0.12
52	23.46	10.02	--	--

PX-8 26 June 52		2100 EST Depth 43'	Weather 00 Wind 0 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.06	8.48	138	0.66
5	27.64	8.58	139	0.70
10	27.40	8.67	139	0.58
15	23.71	9.86	141	0.43
20	23.67	9.87	140	0.34
25	23.59	9.89	140	0.26
30	23.56	9.91	139	0.31
35	23.49	9.95	137	0.31
40	23.47	9.96	127	0.36
45	23.46	9.97	--	--
50	23.43	9.98	--	--
52	23.44	10.00	--	--

PX-8 26 June 52		2200 EST Depth 45'	Weather 00 Wind 0 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.25	8.43	126	0.58
5	27.92	8.55	120	0.60
10	26.18	9.05	180	0.34
15	24.36	9.64	181	0.22
20	23.85	9.83	171	0.34
25	23.66	9.85	141	0.36
30	23.63	9.88	136	0.36
35	23.57	9.93	136	0.31
40	23.50	9.95	136	0.29
45	23.46	9.96	--	--
50	23.46	9.96	--	--
52	23.47	9.96	--	--

PX-8 27 June 52		0000 EST Depth 52'	Weather 01 Wind 0 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.05	8.37	0	0.00
5	27.91	8.47	0	0.00
10	25.77	9.11	0	0.00
15	24.88	9.47	341	0.15
20	23.98	9.77	341	0.15
25	23.73	9.81	341	0.12
30	23.62	9.85	0	0.00
35	23.56	9.87	0	0.00
40	23.48	9.92	0	0.00
45	23.47	9.94	351	0.12
50	--	--	350	0.16
52	23.46	9.95	--	--

PX-8 26 June 52		2300 EST Depth 52'	Weather 00 Wind 0 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.10	8.42	136	0.45
5	26.98	8.74	136	0.48
10	24.68	9.55	0	0.00
15	23.85	9.78	0	0.00
20	23.73	9.82	0	0.00
25	23.62	9.85	139	0.09
30	23.59	9.87	139	0.14
35	23.56	9.89	139	0.14
40	23.46	9.95	140	0.14
45	23.46	9.96	140	0.12
50	23.46	9.96	141	0.00
52	23.46	9.96	--	--

PX-8 27 June 52		0100 EST Depth 52'	Weather 01 Wind 0 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.13	8.49	320	0.19
5	26.67	8.78	328	0.20
10	25.51	9.25	348	0.26
15	24.26	9.66	349	0.32
20	24.03	9.77	359	0.29
25	23.71	9.83	351	0.31
30	23.67	9.85	340	0.30
35	23.58	9.88	330	0.25
40	23.58	9.88	331	0.24
45	23.52	9.93	331	0.27
50	--	--	321	0.29
52	23.49	9.94	--	--



PX-8 27 June 52		0200 EST Depth 52'	Weather 01 Wind NW-2 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.88	8.43	334	0.59
5	27.60	8.67	335	0.88
10	26.33	9.02	325	0.77
15	26.00	9.10	318	0.43
20	23.84	9.80	329	0.43
25	23.62	9.92	320	0.38
30	23.54	9.92	323	0.38
35	23.56	9.92	325	0.38
40	23.51	9.95	337	0.36
45	23.48	9.97	325	0.29
50	--	--	325	0.29
52	23.46	9.96	--	--

PX-8 27 June 52		0400 EST Depth 53'	Weather 00 Wind NW-2 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.84	8.59	323	0.28
5	25.47	9.37	328	0.45
10	25.03	9.52	327	0.45
15	24.49	9.68	328	0.53
20	23.81	9.90	328	0.53
25	23.63	9.95	333	0.45
30	23.59	9.97	333	0.45
35	23.54	9.98	329	0.45
40	23.53	9.98	323	0.40
45	23.53	9.98	318	0.40
50	23.53	9.99	319	0.40
52	23.53	9.99	--	--

PX-8 27 June 52		0300 EST Depth 52'	Weather 01 Wind NW-2 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.94	8.58	313	0.40
5	27.49	8.83	324	0.48
10	25.34	9.42	343	0.60
15	24.24	9.77	344	0.79
20	23.83	9.83	345	0.76
25	23.75	9.86	346	0.64
30	23.62	9.89	348	0.57
35	23.56	9.96	349	0.48
40	23.49	10.00	339	0.45
45	23.47	10.01	359	0.40
50	--	--	360	0.40
52	23.46	10.02	--	--

PX-8 27 June 52		0500 EST Depth 53'	Weather 02 Wind NW-2 Air 28.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.57	8.65	0	0.00
5	27.44	8.70	045	0.14
10	25.14	9.55	358	0.22
15	24.27	9.78	358	0.28
20	24.05	9.87	358	0.50
25	23.94	9.87	358	0.53
30	23.84	9.91	358	0.28
35	23.72	9.94	339	0.23
40	23.55	10.02	309	0.21
45	23.43	10.16	304	0.21
50	23.33	10.25	308	0.21
53	23.33	10.25	--	--

PX-8 27 June 52		0600 EST Depth 53'	Weather 02 Wind NW-2 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.60	8.55	126	0.41
5	27.14	8.78	126	0.26
10	25.34	9.54	355	0.29
15	24.38	9.83	000	0.38
20	23.99	9.93	000	0.38
25	23.94	9.93	350	0.31
30	23.86	9.96	000	0.09
35	23.62	10.02	0	0.00
40	23.43	10.19	250	0.11
45	23.41	10.22	250	0.09
50	23.33	10.25	0	0.00
52	23.35	10.27	--	--

PX-8 27 June 52		0800 EST Depth 52'	Weather 00 Wind NW-1 Air 32.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.74	8.70	136	0.76
5	27.59	8.73	136	0.63
10	27.48	8.76	137	0.52
15	24.05	9.78	138	0.26
20	23.70	9.96	148	0.29
25	23.65	9.98	173	0.29
30	23.63	9.99	168	0.29
35	23.60	10.00	173	0.29
40	23.56	10.01	162	0.29
45	23.52	10.03	143	0.22
50	23.49	10.05	142	0.31
52	23.44	10.08	--	--

PX-8 27 June 52		0700 EST Depth 53'	Weather 02 Wind NW-2 Air 30.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.44	8.63	117	0.40
5	26.07	9.18	112	0.35
10	24.51	9.78	052	0.20
15	23.92	9.90	057	0.15
20	23.83	9.90	112	0.19
25	23.75	9.95	152	0.12
30	23.63	10.02	153	0.11
35	23.53	10.09	208	0.14
40	23.50	10.10	153	0.16
45	23.44	10.12	143	0.14
50	23.37	10.17	138	0.14
52	23.31	10.20	--	--

PX-8 27 June 52		0900 EST Depth 52'	Weather 00 Wind NNW-2 Air 31.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.76	8.49	145	0.69
5	27.51	8.60	137	0.58
10	27.10	8.83	136	0.57
15	23.94	9.86	132	0.41
20	23.77	9.91	146	0.31
25	23.74	9.92	145	0.29
30	23.69	9.94	145	0.31
35	23.66	9.95	145	0.36
40	23.60	9.96	130	0.41
45	23.53	9.99	138	0.29
50	23.52	9.99	135	0.26
52	23.50	10.00	--	--

PX-8 27 June 52		1000 EST Depth 52'	Weather 00 Wind N-2 Air 31.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.93	8.48	150	0.75
5	27.81	8.48	135	0.69
10	27.31	8.60	130	0.58
15	24.38	9.63	135	0.53
20	24.07	9.82	155	0.41
25	23.91	9.86	141	0.34
30	23.84	9.87	150	0.36
35	23.68	9.92	150	0.31
40	23.52	9.97	144	0.31
45	23.51	9.97	141	0.22
50	23.52	9.97	140	0.26

PX-8 27 June 52		1200 EST Depth 52'	Weather 01 Wind NW-2 Air 31.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.20	8.45	141	0.60
5	27.70	8.49	140	0.41
10	24.77	9.60	133	0.34
15	24.24	9.71	142	0.12
20	24.01	9.76	142	0.11
25	23.96	9.82	133	0.14
30	23.82	9.86	141	0.14
35	23.78	9.88	144	0.14
40	23.64	9.91	0	0.00
45	23.53	9.93	0	0.00
50	23.53	9.93	0	0.00

PX-8 27 June 52		1100 EST Depth 52'	Weather 00 Wind N-2 Air 31.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.88	8.46	144	0.60
5	27.59	8.46	143	0.60
10	25.59	9.22	108	0.60
15	24.40	9.74	142	0.18
20	24.03	9.82	138	0.26
25	23.86	9.85	141	0.34
30	23.76	9.89	146	0.36
35	23.66	9.92	141	0.34
40	23.52	9.97	136	0.29
45	23.50	10.00	140	0.22
50	23.50	10.00	146	0.18

PX-8 27 June 52		1300 EST Depth 52'	Weather 01 Wind NW-2 Air 31.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.52	8.41	143	0.16
5	28.14	8.43	121	0.17
10	26.23	9.10	071	0.16
15	24.31	9.71	342	0.15
20	24.12	9.77	342	0.14
25	24.02	9.82	332	0.14
30	24.06	9.83	331	0.16
35	23.87	9.87	333	0.12
40	23.75	9.90	0	0.00
45	23.58	9.95	332	0.12
50	23.54	9.96	343	0.14

PX-8 27 June 52		1400 EST Depth 52'	Weather 01 Wind NW-2 Air 32.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.98	8.45	0	0.00
5	28.63	8.50	341	0.17
10	25.91	9.21	339	0.41
15	24.91	9.58	342	0.36
20	24.32	9.77	321	0.29
25	23.91	9.85	318	0.29
30	23.73	9.88	319	0.36
35	23.67	9.91	321	0.38
40	23.52	10.00	333	0.34
45	23.48	10.02	329	0.41
50	23.47	10.02	328	0.29

PX-8 27 June 52		1600 EST Depth 52'	Weather 13 Wind NW-1 Air 32.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.96	8.49	316	0.22
5	27.90	8.60	312	0.40
10	25.46	9.45	336	0.53
15	24.89	9.62	336	0.48
20	24.10	9.89	337	0.53
25	23.99	9.91	338	0.48
30	23.88	9.95	338	0.53
35	23.68	9.97	338	0.48
40	23.55	10.09	328	0.40
45	23.47	10.13	330	0.28
50	23.45	10.13	328	0.28

PX-8 27 June 52		1500 EST Depth 52'	Weather 01 Wind NW-2 Air 32.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	29.15	8.52	327	0.29
5	28.69	8.43	328	0.41
10	27.49	9.01	337	0.66
15	25.22	9.50	336	0.79
20	24.78	9.53	343	0.64
25	24.08	9.80	346	0.45
30	23.77	9.90	336	0.45
35	23.64	9.93	336	0.40
40	23.48	10.03	336	0.45
45	23.43	10.10	327	0.45
50	23.42	10.10	325	0.40

PX-8 27 June 52		1700 EST Depth 52'	Weather 13 Wind NW-1 Air 31.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	28.58	8.55	329	0.29
5	27.43	8.88	334	0.41
10	25.50	8.95	334	0.50
15	24.75	9.69	339	0.57
20	24.05	9.90	339	0.45
25	23.83	9.99	334	0.48
30	23.61	10.08	334	0.43
35	23.57	10.15	334	0.41
40	23.32	10.50	324	0.41
45	23.22	10.58	324	0.34
50	23.22	10.58	324	0.34
51	23.23	10.59	--	--

PX-12 25 June 52		1600 EST Depth 59'		Weather 02 Wind W-2 Air 34.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	26.17	8.75	288	0.18	
5	26.12	8.77	275	0.22	
10	25.32	8.83	275	0.22	
15	24.52	8.90	266	0.26	
20	23.96	9.23	272	0.26	
25	23.78	9.39	265	0.52	
30	23.72	9.43	263	0.56	
35	23.69	9.45	288	0.47	
40	23.65	9.48	295	0.47	
45	23.57	9.59	297	0.37	
50	23.54	9.67	318	0.47	
55	23.53	9.68	318	0.47	

PX-12 25 June 52		1810 EST Depth 58'		Weather 01 Wind 0 Air 35.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	26.80	8.05	109	0.53	
5	26.70	8.07	107	0.43	
10	24.31	8.97	108	0.22	
15	23.91	9.23	108	0.26	
20	23.65	9.45	108	0.29	
25	23.56	9.55	109	0.26	
30	23.54	9.56	109	0.26	
35	23.51	9.65	110	0.29	
40	23.50	9.65	110	0.31	
45	23.47	9.67	110	0.31	
50	23.46	9.69	110	0.31	
55	23.45	9.71	110	0.29	
60	--	--	110	0.29	

PX-12 25 June 52		1700 EST Depth 59'		Weather 02 Wind SW-1 Air 34.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	26.40	8.57	0	0.00	
5	24.92	8.85	188	0.11	
10	24.03	9.14	257	0.21	
15	23.75	9.40	252	0.24	
20	23.58	9.55	265	0.21	
25	23.54	9.64	288	0.21	
30	23.50	9.68	293	0.20	
35	23.49	9.72	294	0.21	
40	23.49	9.72	294	0.20	
45	23.49	9.72	296	0.20	
50	23.47	9.73	0	0.00	
55	23.45	9.73	245	0.09	

PX-12		1902 EST	Weather 01	
25 June 52		Depth 58'	Wind 0	
			Air 32.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.76	8.04	118	0.57
5	26.26	8.21	118	0.57
10	25.00	8.93	118	0.38
15	24.15	9.07	118	0.45
20	24.12	9.14	118	0.43
25	23.94	9.24	118	0.45
30	23.56	9.59	118	0.43
35	23.51	9.62	118	0.48
40	23.50	9.65	123	0.50
45	23.45	9.67	118	0.50
50	23.44	9.70	113	0.52
55	23.44	9.70	108	0.48

PX-12 25 June 52		2000 EST Depth 58'	Weather 01 Wind 0 Air 31.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.55	8.05	117	0.46
5	26.10	8.05	107	0.45
10	25.87	8.19	107	0.45
15	23.37	8.56	107	0.45
20	24.10	9.00	117	0.50
25	24.02	9.12	113	0.53
30	23.72	9.37	113	0.55
35	23.60	9.48	113	0.55
40	23.50	9.60	112	0.53
45	23.45	9.64	106	0.67
50	23.45	9.65	105	0.69
55	23.44	9.65	106	0.67

PX-12 25 June 52		2200 EST Depth 58'	Weather 01 Wind 0 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.92	8.10	115	0.34
5	26.85	8.11	115	0.34
10	25.70	8.15	115	0.34
15	25.19	8.47	115	0.34
20	25.04	8.63	115	0.34
25	24.25	8.92	115	0.39
30	23.78	9.31	103	0.56
35	23.60	9.42	103	0.47
40	23.47	9.56	102	0.47
45	23.45	9.56	102	0.47
50	23.44	9.57	103	0.52
55	23.42	9.57	103	0.39

PX-12 25 June 52		2100 EST Depth 58'	Weather 01 Wind 0 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.07	8.11	116	0.44
5	25.87	8.11	116	0.44
10	25.34	8.47	116	0.39
15	25.21	8.55	116	0.39
20	24.78	8.68	117	0.47
25	24.20	8.97	116	0.47
30	24.19	9.00	116	0.59
35	23.54	9.56	116	0.66
40	23.52	9.56	116	0.66
45	23.47	9.62	115	0.59
50	23.45	9.63	116	0.62
55	23.44	9.63	116	0.47

PX-12 25 June 52		2315 EST Depth 58'	Weather 01 Wind 0 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.45	7.88	111	0.19
5	25.57	8.05	110	0.15
10	24.37	8.92	0	0.00
15	24.03	9.08	288	0.14
20	23.69	9.33	0	0.00
25	23.51	9.34	058	0.12
30	23.50	9.37	103	0.15
35	23.45	9.41	108	0.15
40	23.44	9.49	108	0.14
45	23.37	9.59	108	0.12
50	23.34	9.63	0	0.00
55	23.27	9.69	--	--



PX-12		0000 EST	Weather 01	
26 June 52		Depth 58'	Wind 0	
			Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.55	7.88	0	0.00
5	25.47	8.10	280	0.09
10	25.12	8.57	300	0.14
15	23.79	9.11	320	0.19
20	23.52	9.43	300	0.25
25	23.49	9.55	290	0.26
30	23.47	9.57	290	0.20
35	23.46	9.60	300	0.22
40	23.46	9.60	300	0.26
45	23.45	9.62	300	0.28
50	23.44	9.63	310	0.27
55	23.44	9.65	320	0.31

PX-12		0200 EST	Weather 01	
26 June 52		Depth 56'	Wind 0	
			Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.50	7.96	259	0.34
5	26.10	8.70	289	0.47
10	24.18	9.11	294	0.66
15	23.78	9.34	299	0.69
20	23.75	9.40	304	0.77
25	23.60	9.51	304	0.77
30	23.55	9.55	304	0.74
35	23.45	9.67	305	0.71
40	23.44	9.68	305	0.66
45	23.44	9.68	305	0.69
50	23.44	9.68	305	0.62
55	23.41	9.70	305	0.66

PX-12		0100 EST	Weather 01	
26 June 52		Depth 56'	Wind 0	
			Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.23	8.04	0	0.00
5	24.97	8.74	290	0.58
10	23.94	9.28	272	0.55
15	23.70	9.41	282	0.55
20	23.64	9.45	282	0.55
25	23.50	9.58	292	0.58
30	23.47	9.62	293	0.64
35	23.44	9.65	298	0.63
40	23.41	9.70	305	0.69
45	23.39	9.73	305	0.66
50	23.37	9.73	310	0.63
55	23.37	9.73	305	0.61

PX-12		0300 EST	Weather 01	
26 June 52		Depth 56'	Wind 0	
			Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.66	8.45	328	0.44
5	25.25	8.71	298	0.47
10	24.71	8.85	298	0.52
15	24.36	9.05	298	0.56
20	24.26	9.10	298	0.59
25	23.85	9.33	298	0.62
30	23.56	9.58	298	0.62
35	23.54	9.58	298	0.59
40	23.52	9.60	298	0.59
45	23.50	9.62	298	0.59
50	23.45	9.71	309	0.59
55	23.42	9.73	309	0.56

PX-12 26 June 52		0400 EST Depth 56'		Weather 01 Wind 0 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	25.75	8.46	297	0.34	
5	25.19	8.66	297	0.56	
10	24.80	8.83	297	0.47	
15	24.12	9.19	297	0.47	
20	23.78	9.43	297	0.52	
25	23.75	9.44	297	0.56	
30	23.67	9.49	297	0.56	
35	23.64	9.52	297	0.47	
40	23.59	9.55	297	0.47	
45	23.52	9.62	298	0.47	
50	23.47	9.71	298	0.47	
55	23.47	9.71	298	0.44	

PX-12 26 June 52		0600 EST Depth 57'		Weather 01 Wind W-1 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	25.89	8.31	081	0.11	
5	25.75	8.46	151	0.21	
10	25.50	8.72	193	0.12	
15	24.10	9.33	0	0.00	
20	23.71	9.52	0	0.00	
25	23.57	9.65	0	0.00	
30	23.53	9.70	041	0.11	
35	23.52	9.71	080	0.12	
40	23.51	9.72	090	0.12	
45	23.50	9.72	116	0.14	
50	23.49	9.72	121	0.16	
55	23.46	9.73	132	0.17	

PX-12 26 June 52		0500 EST Depth 56'		Weather 01 Wind W-1 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	25.84	8.43	262	0.09	
5	25.40	8.63	262	0.14	
10	24.77	9.02	263	0.20	
15	24.16	9.20	266	0.21	
20	23.72	9.44	266	0.20	
25	23.61	9.55	277	0.19	
30	23.55	9.65	297	0.21	
35	23.51	9.71	312	0.20	
40	23.51	9.71	312	0.20	
45	23.50	9.72	317	0.17	
50	23.47	9.72	317	0.14	
55	23.46	9.73	265	0.11	

PX-12 26 June 52		0700 EST Depth 57'		Weather 01 Wind N-1 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	26.00	8.37	110	0.36	
5	26.02	8.37	140	0.52	
10	25.40	8.57	100	0.45	
15	24.25	9.19	085	0.38	
20	24.06	9.29	095	0.36	
25	23.80	9.42	095	0.29	
30	23.72	9.47	100	0.31	
35	23.71	9.48	100	0.41	
40	23.57	9.65	110	0.41	
45	23.52	9.69	110	0.43	
50	23.49	9.73	110	0.43	
55	23.47	9.74	110	0.41	



PX-12 26 June 52		0800 EST Depth 57'		Weather 01 Wind NW-1 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	26.27	8.01	143	0.55	
5	25.84	8.36	122	0.61	
10	24.73	8.92	127	0.61	
15	24.22	9.15	117	0.55	
20	23.95	9.29	111	0.50	
25	23.81	9.38	107	0.55	
30	23.56	9.58	102	0.61	
35	23.52	9.59	108	0.61	
40	23.50	9.62	114	0.63	
45	23.48	9.63	114	0.61	
50	23.47	9.64	115	0.53	
55	23.45	9.66	115	0.52	

FX-12 26 June 52		1000 EST Depth 57'	Weather 01 Wind NW-1 Air 31.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.57	8.22	116	0.36
5	26.06	8.30	115	0.38
10	25.81	8.37	081	0.18
15	25.12	8.70	072	0.26
20	25.04	8.78	072	0.26
25	24.60	8.93	086	0.26
30	24.05	9.23	116	0.45
35	23.94	9.29	116	0.50
40	23.61	9.52	116	0.48
45	23.54	9.59	116	0.53
50	23.53	9.60	116	0.45
55	23.51	9.62	115	0.45

PX-12		0900 EST	Weather 01	
26 June 52		Depth 57'	Wind NW-1	
			Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.24	8.13	116	0.46
5	25.90	8.18	117	0.46
10	25.35	8.70	097	0.18
15	25.13	8.78	092	0.34
20	24.82	8.88	086	0.36
25	24.61	8.97	094	0.45
30	24.15	9.23	105	0.55
35	23.63	9.52	115	0.61
40	23.60	9.53	116	0.63
45	23.52	9.61	116	0.66
50	23.50	9.62	110	0.63
55	23.49	9.63	105	0.61

PX-12 26 June 52		1104 EST Depth 57'	Weather 01 Wind NW-1 Air 32.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.73	8.10	100	0.46
5	26.11	8.18	112	0.18
10	25.62	8.28	107	0.29
15	25.27	8.51	103	0.29
20	24.35	8.95	113	0.26
25	23.85	9.40	112	0.29
30	23.62	9.52	106	0.31
35	23.59	9.56	105	0.34
40	23.56	9.57	110	0.29
45	23.54	9.59	108	0.26
50	23.53	9.60	109	0.22
55	23.50	9.62	109	0.26

PX-12 26 June 52		1200 EST Depth 57'	Weather 01 Wind NW-1 Air 36.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.35	8.12	043	0.21
5	26.10	8.12	023	0.12
10	25.31	8.37	298	0.16
15	23.77	9.18	298	0.23
20	23.63	9.43	299	0.22
25	23.60	9.47	289	0.16
30	23.60	9.48	289	0.14
35	23.56	9.54	0	0.00
40	23.54	9.56	0	0.00
45	23.51	9.61	0	0.00
50	23.47	9.65	0	0.00
55	23.45	9.67	193	0.26

PX-12 26 June 52		1402 EST Depth 57'	Weather 01 Wind NW-1 Air 38.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.49	8.02	0	0.00
5	26.15	8.08	283	0.11
10	24.31	9.12	290	0.12
15	23.87	9.34	293	0.12
20	23.77	9.42	280	0.12
25	23.63	9.51	274	0.15
30	23.56	9.57	280	0.15
35	23.53	9.61	278	0.15
40	23.51	9.65	272	0.63
45	23.50	9.68	273	0.57
50	23.47	9.70	263	0.50
55	23.47	9.70	263	0.41

PX-12 26 June 52		1302 EST Depth 57'	Weather 01 Wind NW-1 Air 38.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.10	8.06	0	0.00
5	26.05	8.10	296	0.41
10	23.82	9.03	296	0.41
15	23.60	9.41	296	0.36
20	23.52	9.57	295	0.41
25	23.50	9.58	300	0.48
30	23.47	9.63	300	0.48
35	23.47	9.65	299	0.52
40	23.47	9.65	298	0.52
45	23.46	9.65	291	0.50
50	23.45	9.67	291	0.41
55	23.45	9.67	--	--

PX-12 26 June 52		1440 EST Depth 57'	Weather - Wind - Air 36.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.81	8.14	301	0.41
5	27.17	8.18	306	0.65
10	24.90	8.88	297	0.77
15	24.15	9.29	304	0.82
20	24.07	9.34	301	0.77
25	23.78	9.41	299	0.77
30	23.63	9.52	298	0.77
35	--	--	294	0.65
40	23.63	9.52	293	0.65
45	--	--	303	0.58
50	23.61	9.57	299	0.58
55	--	--	299	0.50

PX-16 1800 EST Weather 01  
25 June 52 Depth 32½' Wind WNW-1  
Air 33.3°C

Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.40	7.74	145	0.21
5	25.19	8.03	145	0.06
10	23.88	8.94	340	0.16
15	23.28	9.56	070	0.09
20	23.25	9.63	145	0.09
25	23.19	9.67	145	0.12
30	23.14	9.76	145	0.16

PX-16 2100 EST Weather 01  
25 June 52 Depth 33' Wind 0  
Air 30.0°C

Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.43	7.50	145	0.60
5	24.44	8.07	145	0.36
10	23.53	9.16	146	0.18
15	23.34	9.45	146	0.26
20	23.24	9.63	146	0.34
25	23.17	9.68	146	0.29
30	23.12	9.73	146	0.29

PX-16 1900 EST Weather 01  
25 June 52 Depth 32½' Wind 0  
Air 32.2°C

Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.45	7.74	143	0.50
5	25.26	8.10	144	0.34
10	23.85	8.96	054	0.13
15	23.35	9.40	145	0.18
20	23.27	9.63	145	0.22
25	23.24	9.68	144	0.29
30	23.17	9.70	144	0.29

PX-16 2206 EST Weather 01  
25 June 52 Depth 31' Wind 0  
Air 23.3°C

Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.76	7.38	144	0.70
5	25.14	8.07	144	0.36
10	23.78	8.83	144	0.13
15	23.37	9.42	144	0.26
20	23.22	9.58	144	0.29
25	23.19	9.62	144	0.29
30	23.10	9.72	--	--

PX-16 2000 EST Weather 01  
25 June 52 Depth 32½' Wind 0  
Air 30.6°C

Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.26	7.72	150	0.43
5	24.58	8.07	145	0.29
10	23.51	9.08	151	0.29
15	23.35	9.43	151	0.29
20	23.27	9.63	151	0.31
25	23.20	9.70	151	0.34
30	23.12	9.73	151	0.29

PX-16 2300 EST Weather 01  
25 June 52 Depth 31' Wind 0  
Air 28.1°C

Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.36	7.49	146	0.50
5	25.62	7.85	146	0.31
10	23.99	8.53	146	0.13
15	23.32	9.38	--	--
20	23.23	9.51	146	0.13
25	23.16	9.70	146	0.22
30	23.10	9.72	145	0.13

PX-16 26 June 52		0000 EST Depth 32'	Weather 01 Wind 0 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.90	7.58	143	0.22
5	24.58	8.31	143	0.16
10	23.93	8.52	333	0.16
15	23.35	9.12	344	0.15
20	23.21	9.57	354	0.14
25	23.12	9.67	354	0.12
29	23.10	9.71	--	--
30	--	--	354	0.14

PX-16 26 June 52		0300 EST Depth 32½'	Weather 01 Wind 0 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.63	7.62	328	0.26
5	25.38	7.91	328	0.29
10	23.58	9.35	328	0.64
15	23.28	9.61	338	0.58
20	23.21	9.67	328	0.52
25	23.20	9.67	340	0.38
29	23.19	9.68	--	--
30	--	--	337	0.34

PX-16 26 June 52		0100 EST Depth 32'	Weather 01 Wind 0 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.87	7.73	0	0.00
5	24.85	7.91	326	0.22
10	24.30	8.27	327	0.31
15	23.67	8.99	327	0.34
20	23.25	9.42	337	0.34
25	23.16	9.66	347	0.31
29	23.10	9.70	--	--
30	--	--	347	0.31

PX-16 26 June 52		0400 EST Depth 32½'	Weather 01 Wind W-1 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.78	7.70	332	0.19
5	24.20	8.41	332	0.29
10	23.52	9.30	332	0.58
15	23.29	9.55	337	0.45
20	23.26	9.60	337	0.34
25	23.25	9.65	326	0.29
30	23.24	9.66	326	0.18

PX-16 26 June 52		0200 EST Depth 32½'	Weather 01 Wind 0 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.92	7.55	329	0.26
5	25.28	7.88	339	0.41
10	23.59	8.98	339	0.48
15	23.31	9.43	339	0.57
20	23.27	9.53	329	0.53
25	23.15	9.68	329	0.50
29	23.14	9.68	--	--
30	--	--	339	0.43

PX-16 26 June 52		0500 EST Depth 32½'	Weather 01 Wind W-1 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.78	7.64	324	0.11
5	24.41	8.43	325	0.27
10	23.48	9.35	335	0.33
15	23.33	9.54	329	0.17
20	23.28	9.59	330	0.24
25	23.27	9.62	325	0.06
30	23.25	9.65	0	0.00

PX-16 26 June 52		0600 EST Depth 32½'	Weather 00 Wind WNW-1 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.34	7.87	142	0.09
5	24.62	8.50	327	0.09
10	23.89	9.12	347	0.21
15	23.35	9.56	0	0.00
20	23.29	9.59	0	0.00
25	23.25	9.64	153	0.06
30	23.21	9.68	153	0.14

PX-16 26 June 52		0900 EST Depth 32½'	Weather 00 Wind NW-1 Air 34.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.29	7.77	145	0.52
5	24.41	8.37	145	0.31
10	23.46	9.35	146	0.26
15	23.43	9.50	146	0.29
20	23.25	9.62	146	0.34
25	23.21	9.65	146	0.34
30	23.20	9.66	146	0.26

PX-16 26 June 52		0700 EST Depth 32½'	Weather 00 Wind WNW-1 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.83	7.63	146	0.25
5	25.00	8.15	141	0.16
10	23.83	8.98	056	0.12
15	23.31	9.61	156	0.12
20	23.31	9.61	166	0.14
25	23.27	9.65	166	0.16
30	23.18	9.68	151	0.21

PX-16 26 June 52		1000 EST Depth 32½'	Weather 00 Wind NW-1 Air 35.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.29	7.77	150	0.64
5	25.35	8.08	145	0.29
10	23.85	8.99	145	0.13
15	23.40	9.48	145	0.22
20	23.29	9.60	145	0.29
25	23.21	9.67	150	0.26
30	23.15	9.70	149	0.18

PX-16 26 June 52		0800 EST Depth 32½'	Weather 00 Wind NW-2 Air 33.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.05	7.61	144	0.55
5	24.72	8.22	144	0.13
10	24.06	8.77	144	0.29
15	23.44	9.43	144	0.26
20	23.35	9.57	144	0.29
25	23.25	9.65	145	0.34
30	23.21	9.67	145	0.26

PX-16 26 June 52		1100 EST Depth 32'	Weather 00 Wind NW-2 Air 35.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.68	7.80	144	0.58
5	24.66	8.45	151	0.24
10	23.89	8.92	326	0.12
15	23.50	9.40	0	0.00
20	23.27	9.56	147	0.06
25	23.18	9.68	147	0.06
29	23.16	9.69	0	0.00

PX-16 26 June 52		1200 EST Depth 32'	Weather 01 Wind NW-2 Air 35.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.50	7.66	150	0.48
5	24.62	8.37	136	0.14
10	24.09	8.97	336	0.16
15	23.56	9.37	347	0.11
20	23.28	9.55	0	0.00
25	23.21	9.65	0	0.00
29	23.17	9.65	--	--
30	--	--	0	0.00

PX-16 26 June 52		1500 EST Depth 32'	Weather 01 Wind NW-2 Air 34.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.49	7.67	0	0.00
5	26.32	7.91	320	0.29
10	23.37	9.40	313	0.52
15	23.27	9.58	332	0.60
20	23.25	9.59	333	0.50
25	23.25	9.60	332	0.43
29	23.25	9.60	--	--
30	--	--	323	0.31

PX-16 26 June 52		1300 EST Depth 32'	Weather 02 Wind N-2 Air 34.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.29	7.61	138	0.31
5	25.42	8.09	0	0.00
10	24.33	8.56	331	0.29
15	23.52	9.36	352	0.26
20	23.31	9.51	352	0.29
25	23.20	9.67	335	0.31
29	23.16	9.72	--	--
30	- -	--	341	0.29

PX-16 26 June 52		1600 EST Depth 32'	Weather 00 Wind NW-2 Air 34.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.82	7.77	0	0.00
5	25.02	8.20	331	0.29
10	23.54	9.40	336	0.69
15	23.33	9.59	335	0.58
20	23.29	9.64	336	0.52
25	23.26	9.65	335	0.45
29	23.25	9.67	336	0.36

PX-16 26 June 52		1400 EST Depth 32'	Weather 02 Wind NW-2 Air 33.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.52	7.78	0	0.00
5	25.87	7.98	356	0.29
10	23.94	8.87	335	0.43
15	23.39	9.38	335	0.43
20	23.27	9.57	335	0.50
25	23.21	9.61	345	0.38
29	23.16	9.66	--	--
30	--	--	345	0.31

PX-16 26 June 52		1700 EST Depth 32'	Weather 00 Wind W-2 Air 34.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.50	7.83	0	0.00
5	24.68	8.64	331	0.29
10	23.57	9.40	337	0.50
15	23.35	9.54	336	0.29
20	23.35	9.59	331	0.36
25	23.34	9.61	331	0.29
29	23.33	9.63	--	--
30	--	--	325	0.26



PX-21 24 June 52		1520 EST Depth 28'	Weather 02 Wind W-1 Air 31.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.99	6.93	025	0.50
5	23.77	7.06	025	0.65
10	23.54	7.42	023	0.65
15	23.37	7.94	021	0.47
20	23.35	8.40	018	0.62
25	23.35	8.55	023	0.69
28	23.35	8.55	--	--

PX-21 24 June 52		1800 EST Depth 31'	Weather 02 Wind SW-1 Air 30.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.40	6.98	202	0.36
5	23.85	7.15	207	0.48
10	23.61	7.59	186	0.22
15	23.57	8.16	147	0.18
20	23.45	8.59	0	0.00
25	23.43	8.62	0	0.00

PX-21 24 June 52		1600 EST Depth 29'	Weather 02 Wind W-1 Air 31.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.93	7.12	018	0.44
5	23.65	7.16	008	0.44
10	23.54	7.40	358	0.44
15	23.33	8.41	358	0.39
20	23.33	8.65	008	0.47
25	23.32	8.70	017	0.59
29	--	--	017	0.52

PX-21 24 June 52		1900 EST Depth 31'	Weather 02 Wind SW-1 Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.60	6.58	215	0.67
5	24.05	7.07	215	0.82
10	23.62	7.59	205	0.66
15	23.45	8.02	214	0.61
20	23.41	8.33	169	0.50
25	23.39	8.58	160	0.46
28.6	23.39	8.60	--	--

PX-21 24 June 52		1700 EST Depth 29'	Weather 02 Wind W-1 Air 30.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.00	7.21	007	0.20
5	23.90	7.26	333	0.21
10	23.47	7.82	358	0.17
15	23.40	8.49	032	0.16
20	23.40	8.67	036	0.16
25	23.39	8.70	016	0.21

PX-21 24 June 52		2000 EST Depth 27'	Weather 01 Wind SW-1 Air 26.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.50	6.51	206	0.90
5	24.38	6.69	212	0.95
10	24.12	6.90	202	0.87
15	23.75	7.42	202	0.80
20	23.56	7.82	192	0.66
25	23.50	7.98	192	0.66

FX-21 24 June 52		2100 EST Depth 31'	Weather 01 Wind 0 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.50	6.28	218	0.92
5	24.40	6.43	218	0.85
10	24.38	6.45	208	0.77
15	24.25	6.89	208	0.77
20	23.80	7.16	188	0.77
25	23.66	7.42	183	0.71
27	23.62	7.48	--	--

FX-21 25 June 52		2400 EST Depth 27'	Weather 01 Wind 0 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.35	5.77	012	0.28
5	24.37	5.81	006	0.39
10	24.25	6.13	005	0.28
15	24.07	6.57	005	0.28
20	24.02	6.69	005	0.28
25	23.86	7.00	005	0.20

FX-21 24 June 52		2200 EST Depth 30'	Weather 01 Wind 0 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.53	6.09	219	0.44
5	24.38	6.27	217	0.56
10	24.24	6.38	212	0.56
15	24.05	6.63	202	0.47
20	23.90	6.84	203	0.44
25	23.88	6.91	193	0.44

FX-21 25 June 52		0100 EST Depth 27'	Weather 01 Wind 0 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.25	6.19	000	0.74
5	24.02	6.90	000	0.66
10	23.96	7.09	010	0.80
15	23.93	7.26	010	0.77
20	23.75	7.80	010	0.71
25	23.66	8.12	010	0.82

FX-21 24 June 52		2300 EST Depth 27'	Weather 01 Wind 0 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.33	5.94	230	0.44
5	24.25	6.11	240	0.44
10	24.20	6.23	0	0.00
15	24.08	6.49	0	0.00
20	23.91	6.77	0	0.00
25	23.68	7.32	005	0.34

FX-21 25 June 52		0200 EST Depth 32'	Weather 01 Wind 0 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.26	6.78	011	0.90
5	23.93	7.16	006	0.90
10	23.82	7.40	006	0.90
15	23.77	7.58	001	0.90
20	23.57	8.12	001	0.74
25	23.54	8.32	011	0.69
28	23.51	8.37	011	0.66



PX-21 25 June 52		0300 EST Depth 30'	Weather 01 Wind 0 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.17	6.78	007	0.69
5	24.16	6.84	008	0.74
10	23.90	7.50	357	0.74
15	23.66	8.13	357	0.56
20	23.48	8.58	007	0.69
25	23.45	8.73	007	0.77
30	23.43	8.79	007	0.71

PX-21 25 June 52		0600 EST Depth 30'	Weather 01 Wind 0 Air 32.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.00	7.20	205	0.20
5	24.01	7.32	205	0.20
10	23.77	8.06	0	0.00
15	23.55	8.65	025	0.14
20	23.50	8.77	345	0.14
25	23.46	8.82	346	0.14
29½	23.45	8.85	--	--

PX-21 25 June 52		0400 EST Depth 31'	Weather 01 Wind 0 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.00	7.35	010	0.44
5	24.00	7.38	010	0.47
10	23.95	7.66	006	0.44
15	23.50	8.72	008	0.39
20	23.48	8.92	013	0.47
25	23.46	8.94	013	0.56
30	23.45	8.98	013	0.52

PX-21 25 June 52		0700 EST Depth 28'	Weather 01 Wind W-1 Air 33.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.10	6.57	208	0.52
5	23.96	7.55	210	0.57
10	23.87	7.85	209	0.38
15	23.85	8.07	209	0.41
20	23.67	8.35	209	0.48
25	23.50	8.75	208	0.50
28	23.47	8.91	--	--

PX-21 25 June 52		0500 EST Depth 31'	Weather 01 Wind 0 Air 26.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.01	7.32	021	0.18
5	24.01	7.44	021	0.18
10	23.62	8.22	021	0.26
15	23.52	8.77	021	0.29
20	23.48	8.86	020	0.29
25	23.47	8.87	020	0.36
30	23.46	8.89	020	0.26

PX-21 25 June 52		0800 EST Depth 28'	Weather 01 Wind W-1 Air 35.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.35	5.61	109	0.77
5	24.03	6.17	109	0.87
10	23.94	7.11	107	0.82
15	23.71	7.86	108	0.70
20	23.63	8.17	108	0.70
25	23.56	8.47	109	0.58

PX-21 25 June 52		0945 EST Depth 28'	Weather 01 Wind W-1 Air 38.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.47	6.07	214	0.77
5	23.96	6.98	215	0.82
10	23.87	7.16	214	0.70
15	23.86	7.30	213	0.87
20	23.74	7.68	214	0.77
25	23.59	8.18	215	0.77

PX-21 25 June 52		1200 EST Depth 37'	Weather 01 Wind NW-1 Air 33.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.10	5.82	255	0.22
5	24.62	6.03	195	0.26
10	24.25	6.39	175	0.29
15	24.10	6.64	0	0.00
20	23.97	7.09	0	0.00
25	23.92	7.21	014	0.22
30	23.89	7.33	013	0.31

PX-21 25 June 52		1000 EST Depth 27'	Weather 01 Wind NW-1 Air 35.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.67	6.30	219	0.50
5	24.60	6.31	219	0.82
10	24.50	6.38	219	0.87
15	24.25	6.60	220	0.77
20	24.05	7.15	220	0.65
25	23.91	7.44	220	0.50

PX-21 25 June 52		1300 EST Depth 37'	Weather 01 Wind NW-1 Air 33.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.51	4.46	0	0.00
5	24.53	5.93	338	0.29
10	24.45	6.23	346	0.26
15	24.17	6.60	346	0.45
20	24.10	6.72	008	0.36
25	24.01	6.95	021	0.45
30	23.96	7.07	015	0.46

PX-21 25 June 52		1100 EST Depth 38'	Weather 01 Wind NW-1 Air 33.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.09	6.00	176	0.50
5	24.85	6.03	176	0.50
10	24.26	6.67	177	0.50
15	24.15	6.80	176	0.44
20	23.99	7.22	176	0.39
25	23.90	7.46	0	0.00
30	23.88	7.69	0	0.00

PX-21 25 June 52		1400 EST Depth 37'	Weather 01 Wind W-1 Air 35.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.06	5.94	032	0.38
5	24.52	6.30	001	0.63
10	24.10	7.05	352	0.67
15	23.99	7.43	000	0.82
20	23.78	7.86	007	0.71
25	23.58	8.24	014	0.69
30	23.58	8.24	028	0.82

PX-23 24 June 52		1700 EST Depth 13'	Weather 01 Wind SW-2 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.30	5.52	359	0.45
5	24.57	6.18	349	0.34
10	23.59	6.30	355	0.22

PX-23 24 June 52		2000 EST Depth 13'	Weather 01 Wind 0 Air 25.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.38	--	170	0.77
5	23.81	5.95	175	0.77
10	23.69	6.04	170	0.65

PX-23 24 June 52		1800 EST Depth 13'	Weather 01 Wind SW-1 Air 29.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.99	5.65	0	0.00
5	23.59	6.33	0	0.00
10	23.57	6.30	184	0.09

PX-23 24 June 52		2100 EST Depth 13'	Weather 01 Wind 0 Air 22.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.35	3.59	180	1.40
5	24.18	5.35	170	0.97
10	25.08	5.40	165	0.65

PX-23 24 June 52		1900 EST Depth 13'	Weather 01 Wind 0 Air 27.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.13	5.32	169	0.65
5	23.89	6.23	169	0.41
10	23.68	6.27	169	0.51

PX-23 24 June 52		2210 EST Depth 12'	Weather 01 Wind 0 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.88	3.65	172	1.18
5	24.64	4.69	162	0.65
10	24.40	5.01	--	--

PX-23 24 June 52		2300 EST Depth 12'	Weather 01 Wind 0 Air 23.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.72	3.40	183	0.60
5	24.88	3.92	182	0.35
10	24.60	4.55	180	0.70

PX-23 25 June 52		0205 EST Depth 12'	Weather 01 Wind SW-2 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.27	4.91	359	1.02
5	24.25	5.34	359	0.93
10	24.01	5.88	359	0.65

PX-23 25 June 52		0000 EST Depth 12'	Weather 01 Wind 0 Air 23.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.64	3.24	0	0.00
5	24.60	3.91	347	0.14
10	24.51	4.62	356	0.31

PX-23 25 June 52		0300 EST Depth 12'	Weather 01 Wind SW-2 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.06	5.77	357	1.06
5	24.06	5.86	357	0.88
10	24.04	5.92	358	0.65

PX-23 25 June 52		0100 EST Depth 12'	Weather 01 Wind 0 Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.72	3.64	356	0.64
5	24.43	4.67	356	0.81
10	24.17	5.13	356	0.64

PX-23 25 June 52		0400 EST Depth 12'	Weather 01 Wind SW-2 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.05	5.94	353	0.65
5	24.10	6.19	353	0.65
10	24.08	6.20	354	0.59

PX-23 25 June 52		0500 EST Depth 13'	Weather 01 Wind SW-2 Air 24.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.08	5.82	356	0.40
5	24.12	6.30	358	0.35
10	24.08	6.49	358	0.40

PX-23 25 June 52		0800 EST Depth 13'	Weather 00 Wind W-2 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.10	4.40	158	1.06
5	24.05	6.29	158	0.65
10	24.04	6.56	158	0.41

PX-23 25 June 52		0600 EST Depth 13'	Weather 00 Wind 0 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.96	5.90	058	0.23
5	24.13	6.32	059	0.21
10	24.01	6.65	355	0.15

PX-23 25 June 52		0900 EST Depth 13'	Weather 01 Wind NW-3 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.25	4.12	166	1.37
5	24.05	5.77	165	0.77
10	24.04	5.90	170	0.51

PX-23 25 June 52		0700 EST Depth 13'	Weather 00 Wind WSW-1 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.15	5.27	172	0.28
5	24.03	6.39	173	0.29
10	23.99	6.86	173	0.21

PX-23 25 June 52		1000 EST Depth 13'	Weather 01 Wind NW-3 Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.89	4.45	178	1.33
5	24.31	4.98	178	0.97
10	24.16	5.32	178	0.51

PX-23 25 June 52		1100 EST Depth 13'	Weather 01 Wind NW-3 Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.18	3.90	173	0.93
5	24.61	4.30	178	0.59
10	24.39	4.87	178	0.29

PX-23 25 June 52		1400 EST Depth 12'	Weather 01 Wind SW-1 Air 35.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.43	3.58	346	0.59
5	25.40	4.03	356	0.65
10	24.30	4.97	353	0.40

PX-23 25 June 52		1200 EST Depth 12'	Weather 01 Wind NW-3 Air 32.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.18	3.20	176	0.64
5	24.93	3.69	185	0.40
10	24.61	4.52	0	0.00

PX-23 25 June 52		1500 EST Depth 12'	Weather 01 Wind SW-1 Air 35.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	27.01	4.72	001	0.94
5	24.71	5.30	356	0.92
10	24.27	6.23	354	0.64

PX-23 25 June 52		1300 EST Depth 12'	Weather 02 Wind SW-2 Air 33.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.62	3.05	173	0.15
5	25.34	4.08	354	0.14
10	24.56	4.64	353	0.36

PX-23 25 June 52		1600 EST Depth 13'	Weather 01 Wind W-2 Air 35.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	26.95	5.10	000	1.01
5	25.77	5.86	000	0.87
10	24.58	6.34	355	0.60

PX-26 23 June 52		1455 EST Depth 17'	Weather 51 Wind ENE-1 Air 21.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.07	2.89	351	0.70
5	24.06	3.33	354	1.05
10	24.06	3.53	001	0.96
15	24.07	3.60	001	0.70

PX-26 23 June 52		1800 EST Depth 17'	Weather 51 Wind ENE-1 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.98	3.42	173	0.62
2½	23.99	3.79	--	--
5	23.97	4.29	173	0.62
10	23.91	4.40	173	0.52
15	23.90	4.43	173	0.47

PX-26 23 June 52		1600 EST Depth 17'	Weather 51 Wind ENE-1 Air 21.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.96	3.58	349	0.58
5	23.98	3.89	349	0.58
10	23.98	4.06	349	0.58
15	23.97	4.07	349	0.65

PX-26 23 June 52		1900 EST Depth 17'	Weather 40 Wind ENE-1 Air 20.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.17	3.19	176	1.05
5	24.08	3.65	176	1.05
10	24.03	3.97	164	0.87
15	24.01	4.02	163	0.50

PX-26 23 June 52		1700 EST Depth 17'	Weather 51 Wind ENE-1 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.99	3.89	325	0.20
5	23.99	3.91	336	0.17
10	23.94	4.34	018	0.22
15	23.94	4.42	036	0.15

PX-26 23 June 52		2000 EST Depth 13'	Weather 51 Wind ENE-1 Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.18	2.85	177	1.43
5	24.20	3.14	177	1.09
10	24.18	3.21	177	0.77



PX-26 23 June 52		2100 EST Depth 13'	Weather 40 Wind ENE-1 Air 20.5°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.24	2.15	177	1.49
5	24.30	2.23	177	1.09
10	24.30	2.30	177	0.92

PX-26 24 June 52		0000 EST Depth 13'	Weather 40 Wind NWN-1 Air 20.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.24	0.69	0	0.00
5	24.23	0.72	358	0.14
10	24.22	0.81	028	0.20

PX-26 23 June 52		2200 EST Depth 13'	Weather 40 Wind NWN-1 Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.33	1.44	177	1.13
5	24.35	1.52	177	0.96
10	24.35	1.58	177	0.65

PX-26 24 June 52		0100 EST Depth 11'	Weather 40 Wind NWN-1 Air 20.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.17	0.82	355	0.63
5	24.13	1.22	010	0.72
10	24.12	1.55	011	0.85

PX-26 23 June 52		2300 EST Depth 13'	Weather 40 Wind NWN-1 Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.22	0.89	177	0.65
5	24.12	1.10	177	0.50
10	23.94	1.22	177	0.34

PX-26 24 June 52		0200 EST Depth 12'	Weather 40 Wind NWN-1 Air 19.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.90	1.69	015	1.05
5	23.92	1.80	015	1.25
10	23.91	1.89	015	0.96

PX-26 24 June 52		0300 EST Depth 12'		Weather 40 Wind NWN-1 Air -	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	23.66	2.70	012	0.82	
5	23.62	2.76	012	1.01	
10	23.79	2.86	012	1.01	

PX-26 24 June 52		0600 EST Depth 12'		Weather 40 Wind 0 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	23.25	2.92	192	0.39	
5	23.45	3.70	180	0.11	
10	23.50	4.03	180	0.12	

PX-26 24 June 52		0400 EST Depth 15'		Weather 40 Wind NWN-1 Air 20.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	23.59	3.20	359	0.77	
5	23.77	3.57	359	0.82	
10	23.79	3.62	359	0.92	
15	--	--	029	0.77	

PX-26 24 June 52		0700 EST Depth 12'	Weather 40 Wind 0 Air 21.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.72	3.32	173	1.09
5	23.72	3.68	175	0.65
10	23.68	3.86	175	0.58

PX-26 24 June 52		0500 EST Depth 15'		Weather 40 Wind NWN-1 Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	23.45	3.59	000	0.41	
5	23.68	3.95	000	0.77	
10	23.66	4.15	000	0.77	
13	23.66	4.15	--	--	
14	--	--	001	0.58	

PX-26 24 June 52		0800 EST Depth 12'		Weather 03 Wind W-1 Air 21.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current		
			Dir (°T)	Speed (kts)	
0	23.75	2.76	173	1.21	
5	23.76	3.18	173	0.87	
10	23.76	3.36	173	0.58	

PX-26 24 June 52		0900 EST Depth 12'	Weather 03 Wind W-1 Air 22.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.86	1.98	173	1.43
5	23.87	2.14	173	1.13
10	23.87	2.23	175	0.87

PX-26 24 June 52		1200 EST Depth 12'	Weather 03 Wind NWE-1 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.07	0.59	176	0.25
5	24.00	0.72	195	0.30
10	24.31	0.96	148	0.19

PX-26 24 June 52		1000 EST Depth 12'	Weather 03 Wind W-1 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.93	1.40	175	1.17
5	23.91	1.38	175	0.92
10	23.90	1.51	175	0.65

PX-26 24 June 52		1300 EST Depth 12'	Weather 03 Wind NW-1 Air 28.9°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.08	0.54	359	0.19
5	23.80	0.63	351	0.22
10	23.90	0.71	351	0.28

PX-26 24 June 52		1100 EST Depth 12'	Weather 03 Wind W-1 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.03	0.95	174	0.87
5	23.93	0.96	174	0.50
10	23.90	1.07	174	0.41

PX-26 24 June 52		1403 EST Depth 12'	Weather 02 Wind - Air 27.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.80	0.78	353	0.92
5	24.40	1.09	000	1.01
10	24.32	1.59	000	0.92

PX-29 23 June 52		1600 EST Depth 27'	Weather 03 Wind NNE-2 Air 22.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.62	1.22	351	0.65
5	24.62	1.23	356	0.77
10	24.62	1.24	357	0.77
15	24.62	1.32	003	0.83
20	24.63	1.34	007	0.88
24	24.64	1.33	--	--
25	--	--	002	0.83

PX-29 23 June 52		1900 EST Depth 21'	Weather 03 Wind NNE-1 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.57	1.17	168	1.14
5	24.59	1.17	167	0.97
10	24.60	1.22	166	1.02
15	24.60	1.29	168	1.02
17	24.60	1.33	--	--
19	--	--	168	0.93

PX-29 23 June 52		1700 EST Depth 27'	Weather 03 Wind NNE-1 Air 22.2°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.58	1.64	000	0.17
5	24.58	1.68	000	0.38
10	24.57	1.71	002	0.34
15	24.57	1.73	002	0.22
20	24.57	1.74	358	0.29
23	24.57	1.74	--	--
24	--	--	358	0.26

PX-29 23 June 52		2000 EST Depth 23'	Weather 52 Wind NNE-2 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.50	0.54	195	1.33
5	24.50	0.55	191	1.47
10	24.51	0.55	193	1.51
15	24.51	0.55	192	1.37
20	24.51	0.57	194	1.33
21	24.51	0.57	--	--

PX-29 23 June 52		1800 EST Depth 26'	Weather 03 Wind NNE-2 Air 21.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.49	0.96	185	0.58
5	24.59	1.58	185	0.46
10	24.57	1.64	185	0.43
15	24.57	1.84	185	0.43
20	24.57	1.87	185	0.31
22	24.57	1.87	--	--
23	--	--	175	0.29

PX-29 23 June 52		2100 EST Depth 23'	Weather 52 Wind NNE-1 Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.34	0.22	191	1.40
5	24.36	0.22	190	1.37
10	24.36	0.22	193	1.37
15	24.36	0.22	191	1.14
20	24.36	0.23	--	--

PX-29 23 June 52		2200 EST Depth 23'	Weather 57 Wind - Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.26	0.17	187	1.10
5	24.27	0.17	191	1.22
10	24.27	0.17	190	1.14
15	24.28	0.17	191	1.10
20	24.28	0.17	189	1.02

PX -29 24 June 52		0100 EST Depth 24'	Weather 40 Wind NNE-1 Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.04	0.13	018	0.97
5	24.06	0.13	015	0.97
10	24.07	0.13	012	1.06
15	24.07	0.13	015	0.93
20	24.07	0.13	019	0.93
22	24.07	0.13	--	--

PX-29 23 June 52		2300 EST Depth 23'	Weather 40 Wind - Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.08	0.13	186	0.59
5	24.10	0.13	185	0.77
10	24.10	0.14	186	0.77
15	24.11	0.14	186	0.65
20	24.11	0.14	186	0.65

PX-29 24 June 52		0200 EST Depth 24'	Weather 40 Wind NNE-1 Air 19.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.14	0.19	017	1.33
5	24.18	0.19	016	1.37
10	24.19	0.19	017	1.22
15	24.19	0.19	014	1.33
20	24.19	0.19	013	1.40
22	24.18	0.19	--	--

PX-29 24 June 52		0000 EST Depth 25'	Weather 03 Wind NNE-1 Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.06	0.11	0	0.00
5	24.08	0.11	015	0.12
10	24.08	0.11	007	0.16
15	24.10	0.11	011	0.15
20	24.10	0.11	040	0.15
22	24.10	0.11	--	--

PX-29 24 June 52		0300 EST Depth 24'	Weather 03 Wind NNW-2 Air 19.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.11	0.32	017	1.33
5	24.14	0.33	019	1.37
10	24.18	0.38	019	1.37
15	24.19	0.39	019	1.30
20	24.19	0.38	017	1.14
22	24.18	0.37	--	--

PX-29 24 June 52		0400 EST Depth 26'	Weather 40 Wind NNE-1 Air 19.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.12	0.78	013	0.83
5	24.17	0.81	013	0.97
10	24.18	0.82	015	1.02
15	24.17	0.82	013	1.10
20	24.15	0.83	012	1.14
23	24.14	0.81	014	1.06

PX-29 24 June 52		0700 EST Depth 24'	Weather 03 Wind NNE-1 Air 20.6°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.06	0.82	193	0.97
5	24.06	0.84	190	1.04
10	24.08	1.09	192	0.94
15	24.08	1.18	190	0.94
20	24.08	1.23	192	0.84
22	24.08	1.31	--	--

PX-29 24 June 52		0500 EST Depth 25'	Weather 49 Wind NNE-1 Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.05	1.11	351	0.35
5	24.05	1.14	356	0.53
10	24.06	1.15	012	0.60
15	24.06	1.17	013	0.57
20	24.12	1.31	009	0.43
22	24.13	1.30	--	--
23	--	--	010	0.35

PX-29 24 June 52		0800 EST Depth 20'	Weather 05 Wind SW-1 Air 21.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.02	0.56	189	1.40
5	24.05	0.59	188	1.40
10	24.05	0.59	190	1.40
15	24.07	0.62	188	1.22
20	24.07	0.62	--	--

PX-29 24 June 52		0600 EST Depth 25'	Weather 49 Wind 0 Air 20.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.06	1.23	0	0.00
5	24.06	1.31	227	0.14
10	24.06	1.38	232	0.14
15	24.06	1.43	231	0.12
20	24.08	1.47	--	--
23	24.08	1.47	--	--

PX-29 24 June 52		0900 EST Depth 20'	Weather 05 Wind W-1 Air 22.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.93	0.25	192	1.44
5	23.96	0.25	190	1.44
10	23.97	0.26	201	1.47
15	23.99	0.28	192	1.33
20	23.99	0.28	--	--

PX-29 24 June 52		1000 EST Depth 23'	Weather 05 Wind W-1 Air 23.3°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.86	0.16	186	1.33
5	23.81	0.16	185	1.22
10	23.81	0.16	187	1.22
15	23.81	0.16	183	1.10
20	23.81	0.16	181	1.18

PX-29 24 June 52		1300 EST Depth 22'	Weather 03 Wind NNW-1 Air 26.1°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.43	0.12	044	0.26
5	24.46	0.12	042	0.38
10	24.34	0.12	038	0.36
15	23.78	0.12	045	0.43
20	23.76	0.12	041	0.29
22	23.76	0.12	--	--

PX-29 24 June 52		1100 EST Depth 23'	Weather 01 Wind W-1 Air 26.7°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	23.99	0.13	194	0.83
5	23.83	0.13	189	0.88
10	23.81	0.14	190	0.97
15	23.82	0.14	187	0.93
20	23.82	0.14	195	0.93

PX-29 24 June 52		1400 EST Depth 22'	Weather 03 Wind WSW-2 Air 24.4°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	25.17	0.14	016	1.18
5	23.98	0.14	019	1.14
10	23.93	0.14	019	1.18
15	23.91	0.14	016	1.26
20	23.89	0.14	013	1.14
22	23.93	0.14	--	--

PX-29 24 June 52		1200 EST Depth 23'	Weather 02 Wind NNW-1 Air 25.0°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.30	0.12	165	0.36
5	24.10	0.12	166	0.52
10	24.05	0.12	185	0.46
15	23.78	0.12	179	0.34
20	23.78	0.12	169	0.29
22	23.76	0.12	--	--

PX-29 24 June 52		1500 EST Depth 22'	Weather 01 Wind NE-1 Air 26.8°C	
Depth (ft)	Temp (°C)	Sal (o/oo)	Current	
			Dir (°T)	Speed (kts)
0	24.46	0.20	016	1.58
5	24.30	0.19	018	1.44
10	24.23	0.19	018	1.47
15	24.23	0.19	018	1.51
20	24.16	0.19	014	1.51
22	24.12	0.18	--	--



Station	Depth (ft)	Date	Time EST	O <sub>2</sub> (ml/L)	pH	Alk. (mg at/L)	Chloro. (μ/L)	POL (μg at/L)	Turbidity		
									100m	600m	900m
PX-2	0	28 June	0725	5.50	8.35	1.16	5.40	0.04	0.248	0.120	0.098
	10		0745	5.40	8.27	1.09	3.26	0.04	0.200	0.104	0.077
	20		0808	5.07	8.18	0.89	1.78	0.03	0.207	0.098	0.076
	30		0830	3.34	7.89	0.76	1.87	0.04	0.198	0.107	0.084
	45		0846	0.89	7.78	1.15	1.72	0.04	0.244	0.148	0.118
PX-4	0	27 June	0645	4.41	8.18	1.29	7.04	0.06	0.195	0.087	0.066
	10		0710	4.35	7.98	1.09	5.90	0.05	0.190	0.097	0.072
	20		0730	3.60	7.90	0.96	6.48	0.05	0.169	0.084	0.071
	30		0745	2.84	7.66	0.71	2.85	0.06	0.174	0.102	0.081
	45		0800	2.05	7.64	0.74	3.22	0.05	0.227	0.139	0.119
PX-12	0	26 June	0700	4.66	8.01	0.93	8.78	0.06	0.269	0.138	0.114
	10		0725	4.69	8.01	1.09	5.51	0.06	0.208	0.101	0.080
	20		0745	2.91	7.69	1.09	4.45	0.05	0.235	0.129	0.102
	30		0805	2.59	7.60	0.74	2.84	0.05	0.259	0.160	0.123
	45		0825	2.27	7.58	0.71	3.01	0.06	0.347	0.210	0.160
PX-21	0		0605	3.67	7.40	0.83	2.37	0.16	0.399	0.237	0.163
	10		0630	3.68	7.31	0.75	1.77	0.14	0.419	0.254	0.195
	20		0705	2.09	7.16	1.12	1.20	0.11	0.457	0.315	0.277
PX-26	0		0700	3.31	7.69	1.05	1.82	0.24	1.051	0.678	0.497
	15		0740	3.09	7.15	0.63	2.45	0.17	2.022	0.531	1.208

# DISTRIBUTION LIST

<u>Copies</u>	<u>Addressee</u>	<u>Copies</u>	<u>Addressee</u>
1	Chief of Naval Operations Navy Department Washington 25, D. C. Attn: Op-533D	6	Director Naval Research Laboratory Washington 25, D. C. Attn: Technical Information Officer
1	Chief of Naval Research Navy Department Washington 25, D. C. Attn: Code 466	8	U. S. Navy Hydrographic Office Washington 25, D. C. Attn: Division of Oceanography
2	Geophysics Branch Code 416 Office of Naval Research Washington 25, D. C.	2	Assistant Naval Attache for Research American Embassy Navy 100 Fleet Post Office, New York
1	Office of Naval Research Contract Administrator Southeastern Area c/o George Washington University 2110 G Street, N. W. Washington 7, D. C.	1	British Joint Services Mission Main Navy Building Washington 25, D. C.
1	Mr. W. B. Girkin ONR Resident Representative Institute for Cooperative Research 1315 St. Paul Street Baltimore 2, Maryland	2	Chief, Bureau of Ships Navy Department Washington 25, D. C. Attn: Code 847
3	Officer in Charge Office of Naval Research London Branch Office Navy Number 100 Fleet Post Office New York, N. Y.	1	Chief, Bureau of Yards and Docks Navy Department Washington 25, D. C.
3	Office of Naval Research Branch Office 346 Broadway New York 13, N. Y.	2	Director, U. S. Navy Electronics Laboratory San Diego 52, California Attn: Codes 2240, 2242
1	Office of Naval Research Branch Office Tenth Floor, The John Crerar Library Building 86 East Randolph Street Chicago, Illinois	1	Commander, Naval Ordnance Labora- tory, White Oak Silver Spring 19, Maryland
1	Office of Naval Research Branch Office 1030 East Green Street Pasadena 1, California	1	Amphibious Training Command Naval Amphibious Base Little Creek, Virginia
1	Office of Naval Research Branch Office 1000 Geary Street San Francisco, California	1	Project Arowa U. S. Naval Air Station Building R-48 Norfolk, Virginia
		1	Department of Aerology U. S. Naval Postgraduate School Monterey, California
		1	U. S. Naval Underwater Sound Laboratory New London, Connecticut

<u>Copies</u>	<u>Addressee</u>	<u>Copies</u>	<u>Addressee</u>
1	U. S. Navy Mine Counter Measure Station Panama City, Florida	1	Commandant (OAO) U. S. Coast Guard Washington 25, D. C.
5	Armed Services Technical Information Center, Documents Service Center Knott Building Dayton 2, Ohio	2	U. S. Fish and Wildlife Service Department of the Interior Washington 25, D. C. Attn: Dr. L. A. Walford
1	Assistant Secretary of Defense for Research and Development Pentagon Building Washington 25, D. C. Attn: Committee on Geophysics and Geography	1	U. S. Fish and Wildlife Service 450 B Jordan Hall Stanford University Stanford, California
1	Commanding General Research and Development Division Department of the Air Force Washington 25, D. C.	1	U. S. Fish and Wildlife Service South Atlantic Fishery Investigations, P.O. Box 283 Brunswick, Georgia
1	Commanding General Research and Development Division Department of the Army Washington 25, D. C.	1	U. S. Fish and Wildlife Service P.O. Box 3830 Honolulu, T. H.
1	U. S. Army Beach Erosion Board 5201 Little Falls Road, N. W. Washington 16, D. C.	1	U. S. Fish and Wildlife Service Chesapeake Shellfish Investigations, P.O. Box 151 Annapolis, Maryland Attn: Mr. J. B. Engle
1	District Engineer Baltimore District Corps of Engineers, U. S. Army P.O. Box 1715 Baltimore 3, Maryland	1	U. S. Fish and Wildlife Service Woods Hole, Massachusetts
1	Waterways Experiment Station U. S. Army Engineers Vicksburg, Mississippi Attn: Mr. Alan G. Skelton, Head Research Center Library	1	U. S. Fish and Wildlife Service Fort Crockett Galveston, Texas
1	District Engineers Office U. S. Army Engineers Norfolk, Virginia	1	U. S. Fishery Laboratory Beaufort, North Carolina
1	Commanding Officer Cambridge Field Station 230 Albany Street Cambridge 39, Massachusetts Attn: CRHSL	1	Librarian U. S. Geological Survey Room 1033 General Services Adm. Building Washington 25, D. C.
1	Director, U. S. Coast and Geodetic Survey, Department of Commerce Washington 25, D. C.	1	National Research Council 2101 Constitution Avenue Washington 25, D. C. Attn: Committee on Undersea Warfare

<u>Copies</u>	<u>Addressee</u>	<u>Copies</u>	<u>Addressee</u>
1	Division of Water Pollution Control U. S. Public Health Service Federal Security Agency Washington 25, D. C. Attn: Mr. A. F. Bortsch	1	Director Division of Statutory Research and Drafting State Capitol Richmond 19, Virginia
1	Office of Technical Services Department of Commerce Washington 25, D. C.	1	Municipal Reference Library 2230 Municipal Building New York 7, N. Y. Attn: Miss Amelia H. Munson
1	Weather Bureau Library 24th and M Streets, N. W. Washington 25, D. C.	1	Baltimore County Health Dept. Towson 4, Maryland Attn: Mr. V. R. Sullivan
5	Director Department of Research and Education State of Maryland Solomons, Maryland	1	Talbot County Free Library Easton, Maryland Attn: Miss Sarah F. Cockey Librarian
1	Director Maryland Dept. of Geology, Mines and Water Resources c/o The Johns Hopkins University Baltimore 18, Maryland	1	Bingham Oceanographic Foundation Yale University New Haven, Connecticut
2	Board of Natural Resources Dept. of Tidewater Fisheries State Office Building Annapolis, Maryland Attn: Mr. Arthur H. Brice, Chairman	1	Department of Conservation Cornell University Ithaca, New York Attn: Dr. J. Ayers
1	Mr. Edwin M. Barry Chief, Inland Fish Management State Game and Inland Fish Commission 516 Munsey Building Baltimore 2, Maryland	1	The Oceanographic Institute Florida State University Tallahassee, Florida
1	Water Pollution Control Commission State of Maryland 220 <sup>x</sup> North Charles Street Baltimore 18, Maryland	1	Director Narragansett Marine Laboratory Kingston, Rhode Island
1	Department of Information State Office Building Annapolis, Maryland	2	Department of Meteorology and Oceanography New York University New York, N. Y.
2	Director Virginia Fisheries Laboratory Gloucester Pt., Virginia	1	Marine Physical Laboratory Scripps Institution of Oceanography Point Loma, California
		2	Director Scripps Institution of Oceanography La Jolla, California

<u>Copies</u>	<u>Addressee</u>	<u>Copies</u>	<u>Addressee</u>
2	Head, Department of Oceanography Texas A and M College College Station, Texas	1	Miss Jessie Bell MacKenzie Librarian Museum of Comparative Zoology Harvard University Cambridge, Massachusetts
1	Director Marine Laboratory University of Miami Coral Gables, Florida	1	Stone Biological Laboratory Put-in-Bay Ohio
1	Allen Hancock Foundation University of Southern California Los Angeles 7, California	1	Department of Zoology Rutgers University New Brunswick, New Jersey Attn: Dr. H. H. Haskin
2	Department of Oceanography University of Washington Seattle 5, Washington Attn: Dr. Richard H. Fleming " Librarian	1	Brown University Providence, Rhode Island Attn: Dr. George W. Morgan Applied Math. Dept.
2	Director Woods Hole Oceanographic Institution Woods Hole, Massachusetts	1	Institute for Cooperative Research The Johns Hopkins University 1315 St. Paul Street Baltimore 2, Maryland Attn: Librarian
1	Bears Bluff Laboratories Wadmalaw Island, S. C. Attn: Mr. G. Robert Lunz, Director	1	The Johns Hopkins University Baltimore 18, Maryland Attn: Librarian (Acquisitions Dept.)
1	Director, Hawaii Marine Laboratory University of Hawaii Honolulu, T. H.	2	Department of Sanitary Engineering The Johns Hopkins University Baltimore 18, Maryland Attn: Dr. Abel Wolman " Dept. Library
1	Institute of Fisheries Research University of North Carolina Morehead City, North Carolina	1	Department of Civil Engineering The Johns Hopkins University Baltimore 18, Maryland Attn: Dr George S. Benton
1	Director Institute of Marine Science Port Aransas, Texas	1	The Isaiah Bowman School of Geography The Johns Hopkins University Baltimore 18, Maryland Attn: Dr. George Carter
1	Wm. G. Kerckhoff Laboratories of the Biological Sciences California Institute of Technology Corona del Mar, California		
1	Marine Biological Laboratory Woods Hole, Massachusetts Attn: Librarian		
1	Marine Laboratory Duke University Beaufort, North Carolina		

<u>Copies</u>	<u>Addressee</u>	<u>Copies</u>	<u>Addressee</u>
4	University of Maryland College Park, Maryland Attn: Miss Virginia Phillips Ass't Reference Librarian " Librarian, Maryland Division " Department of Biology " Bureau of Public Administration Christian L. Larsen, Director	2	Department of Zoology University of Cape Town Rondebosch SOUTH AFRICA Attn: Dr. N. A. Millard " Dr. J. H. Day
1	Department of Engineering University of California Berkeley, California	1	Fisheries Division, C.S.I.R.O. P.O. Box 21 Cronulla, N.S.W. AUSTRALIA Attn: Dr. D. J. Rochford
1	University of California Department of Meteorology 405 Hilgard Los Angeles 24, California	1	Atlantic Biological Station Fisheries Research Board of Canada, St. Andrews New Brunswick, Canada
1	Director Lamont Geological Observatory Columbia University Torrey Cliff Palisades, New York	1	Dr. John P. Tully Pacific Oceanographic Group c/o Pacific Biological Station Nanaimo British Columbia, CANADA
1	Limnology Library Biology Building University of Wisconsin Madison 5, Wisconsin	1	Pacific Biological Station Fisheries Research Board of Canada Nanaimo British Columbia, CANADA
1	Enoch Pratt Free Library 400 Cathedral Street Baltimore 1, Maryland Attn: Miss Elizabeth C. Litsinger Head, Maryland Department	1	Naval Research Establishment c/o Fleet Mail Office Halifax Nova Scotia, CANADA
1	The Oyster Institute of North America 6 Mayo Avenue, Bay Ridge Annapolis, Maryland Attn: Mr. David H. Wallace, Director	1	Fisheries Research Board of Canada Zoological Building University of Toronto Toronto, Ontario CANADA
1	Atlantic States Marine Fisheries 22 West First Street Mount Vernon, New York Attn: Mr. Wayne D. Heydecker	2	Institute of Oceanography University of British Columbia Vancouver, Canada Attn: Dr. W. M. Cameron " Librarian
1	California Academy of Sciences Golden Gate Park San Francisco, California Attn: Dr. R. C. Miller	1	Tidal and Current Survey Canadian Hydrographic Service Dept. of Mines and Technical Surveys Ottawa, CANADA



<u>Copies</u>	<u>Addressee</u>	<u>Copies</u>	<u>Addressee</u>
1	Conseil International pour l'Exploration de la Mer Bibliotheque Postbox 20 Charlottenlund, Denmark Attn: Librarian	1	Food and Agriculture Organization of the United Nations Viale delle Terme di Caracalla Rome, ITALY Attn: Miss Kristine Lomsdal, Librarian
1	Liverpool Observatory and Tidal Institute Bidston, Birkenhead, England Attn: Librarian	1	Dr. Koji Hidaka Geophysical Institute Tokyo University Tokyo, Japan
1	Marine Biological Association of the United Kingdom The Plymouth Laboratory Citadel Hill Plymouth, England	1	Masao Kametaka Librarian Faculty of Agriculture Tohoku University Sendai, Japan
1	Dr. J. R. Lumby, Editor "Journal du Conseil" Fisheries Laboratory Lowestoft Suffolk, England	1	Dr. Kanji Suda Chief Hydrographer Hydrographic Office 5 - Tsukiji, Chuo-Ku Tokyo JAPAN
1	Librarian National Institute of Oceanography Wormley, near Godalming Surrey ENGLAND	1	International Hydrographic Bureau Monte Carlo MONACO
1	Dr. J. Proudman Professor of Oceanography University of Liverpool Liverpool, England	1	Musee Oceanographique de Monaco Monaco-Ville MONACO
1	L'Ingenieur Hydrographe en Chef Gougenheim Comite Central d'Oceanographie et d'Etude des Cotes 13 Rue de l'Universite Paris VII FRANCE	1	Institut Francais d'Oceanie Boite Postale No. 4 Noumea NEW CALEDONIA
1	Deutsches Hydrographisches Institut Seewartenstrasse 9 Hamburg 11 GERMANY Attn: Dr. G. Bohnecke, President	1	Dr. E. I. Robertson Department of Geophysics D.S.I.K. Wellington NEW ZEALAND
1	Dr. S. Jones Central Fisheries Barrackpore P.O. via: Calcutta INDIA	1	Geologisch Instituut Rijks-University Melkweg 1 Groningen, THE NETHERLANDS



<u>Copies</u>	<u>Addressee</u>
1	Dr. P. Groen Kon. Ned. Meteorologisch Instituut Oceanografische Afdeling, de Bilt THE NETHERLANDS
1	Universitetet Oslo Blindern, Oslo Norway Attn: Librarian
1	Geofysisk Institutt Allegaten 70 Bergen NORWAY
1	Professor H. U. Sverdrup, Director Norsk Polarinstitut Observatoreight 1 Oslo NORWAY
1	Marine Station Millport Isle of Cumbare SCOTLAND Attn: Dr. H. Barnes
1	Dr. Hans Pettersson Oceanografiska Institutet Box 1038 Goteborg 4 SWEDEN
1	Library Kungl Fiskeristyrelsen med Statens Fiskeriforsok Hydrographic Dept. Box 1038 Goteborg 4 SWEDEN

# Armed Services Technical Information Agency

Because of our limited supply, you are requested to return this copy WHEN IT HAS SERVED YOUR PURPOSE so that it may be made available to other requesters. Your cooperation will be appreciated.

**AD**

**37230**

NOTICE: WHEN GOVERNMENT OR OTHER DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE U. S. GOVERNMENT THEREBY INCURS NO RESPONSIBILITY, NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

Reproduced by  
**DOCUMENT SERVICE CENTER**  
KNOTT BUILDING, DAYTON, 2, OHIO

**UNCLASSIFIED**